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VOL. XV.

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JOSEPH HENRY,
Secretary S. I.

SMITHSONIAN MISCELLANEOUS COLLECTIONS.

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BIBLIOGRAPHICAL INDEX

TO

NORTH AMERICAN BOTANY;

OR

CITATIONS OF AUTHORITIES FOR ALL THE RECORDED INDIGENOUS AND NATURALIZED SPECIES OF THE FLORA OF NORTH AMERICA,

WITH

A CHRONOLOGICAL ARRANGEMENT OF THE SYNONYMY.

By SERENO WATSON.

PART I.

POLYPETALÆ.

WASHINGTON:
PUBLISHED BY THE SMITHSONIAN INSTITUTION,
March, 1878.

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ADVERTISEMENT.

THIS work is intended to facilitate the labors of botanists by furnishing references to all the published descriptions of species of the flora of North America, with a chronological arrangement of the synonymy, and is published by the Smithsonian Institution at the request of the leading botanists of the United States, who have also contributed to the expense of its preparation.

The first part of the work is now published, as this covers the ground of Vol. I. of Torrey & Gray's Flora of North America, and is complete in itself: the remainder will be printed as soon as the manuscript can be furnished by the author.

JOSEPH HENRY,
Secretary Smithsonian Institution.

WASHINGTON, March, 1878.

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PREFACE.

The following contribution towards a history of the known species of North American plants needs little of introduction or explanation, and nothing of excuse. With the purpose of giving a clew to whatever may have been published respecting each species, all the accessible works touching upon the systematic botany of this country, since the adoption of the Linnean system of nomenclature, have been consulted, including those in the library of the Cambridge Herbarium and the general library of Harvard University, the Public Library of Boston, the library of the Massachusetts Horticultural Society, and others of less importance, and to some extent also the Congressional Library at Washington. Citations at second hand have been only sparingly used.

The territory embraced includes Greenland and the Arctic Coast upon the north, and the borders of Mexico closely adjacent to the United States on the south, the habitat in the latter case being always indicated. For the flora of the region to the west of the Mississippi and northward, the citation of authorities is intended to be full and complete. The same may be said (with some unimportant exceptions) for the Atlantic States prior to 1840, the date of the conclusion of the first volume of Torrey & Gray's Flora of North America. For the subsequent period, the publications of Torrey, Gray, and Chapman have been deemed sufficient in most cases. Others are referred to whenever there is special reason for so doing.

The matter of synonymy has been often a difficult one, in the disagreement of authorities and the frequent uncertainty as to the degree of reliance to be placed upon recorded determinations. For this reason, continual reference has been had to the plants themselves; and the collections in the Harvard University Herbarium, which include in most cases authentic and typical specimens, have been carefully collated under most of the genera for the purpose of confirming the validity of species and the correctness of their synonymy. For species which are also indigenous in other coun-

tries, authorities are cited and synonymy is given as far as they relate to the American habitat, with only partial and general references to foreign botany.

It is intended to give with the final volume a full bibliography, not only of the works and articles here cited, but of all others relating to the North American flora. The abbreviations of titles that are here used, though necessarily concise, will usually suffice for the ready identification of the works cited, without the aid which such bibliography would give. In some instances, however, authors of single works of frequent recurrence are referred to by name only, as Walter (Flora Caroliniana), Persoon (Synopsis Plantarum), Elliott (Sketch of the Botany of South Carolina), Chapman (Flora of the Southern States), etc. In case of several editions of the same work, the first edition is the one cited unless it is otherwise specified, excepting the common manuals of the Eastern flora, of which the later editions have been used (Eaton & Wright, North American Botany, 1841, which is the eighth edition of Amos Eaton's Manual of Botany; Wood, Class-Book, 1861; Gray, Manual, 5 ed. 1869). The Genera Plantarum of Bentham & Hooker has been followed in the sequence of the orders, while the genera and species are arranged alphabetically for greater facility of reference. The authorities under each specific name, as also the citations from each author, are arranged in chronological order. Citations of plates or figures are made more prominent by the use of heavy-faced type; where the reference is simply to a catalogue name or habitat, without any note descriptive or otherwise important, the numerals are in antique type. Introduced species have the specific name in small capitals.

SERENO WATSON.

CAMBRIDGE, March 1, 1878.

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A. Baldensis, not Linn. Hook. Fl. Bor.-Am. 1. 15. Don, Mill. 1. 18. Torr. & Gray, Fl. 1. 12.

A. narcissiflora. Hook. & Arn. Bot. Beechey, 121.

A. lanigera. Gay, Fl. Chil. 1. 22. Walp. Ann. 1. 6.

A. narcissiflora, Linn. See DC. Syst. 1. 212; Pritz. in Linn. 15, 685 (Walp. Rep. 1. 30); Ledeb. Fl. Ross. 1. 18 & 728. — Pursh, 387. Hook. Fl. Bor.-Am. 1. 8. Bong. Sitch. 123. Schlecht. in Linn. 6. 576. Torr. & Gray, Fl. 1. 14. Regel & Tilg. Fl. Ajan. 27. Hook. f., Arct. Pl. 283. Wood, Cl.-Book, 203. Gray, Proc. Acad. Philad. 1863, 56. Rothr. Fl. Alask. 442. Lawson, Ranunc. Canad. 30. Porter, Fl. Col. 2. Torr. Bot. Wilkes, 212.

A. nemorosa, Linn. See DC. Syst. 1. 203; Pritz. in Linn. 15. 650 (Walp. Rep. 1. 25); Ledeb. Fl. Ross. 1. 15.—Michx. Fl. 1. 319. Pursh, 387. Elliott, 2. 53. Bigel. Fl. Bost. 2 ed. 222. DC. Prodr. 1. 20. Spreng. Syst. 2. 661. Hook. Fl. Bor.-Am. 1. 6; Lond. Jour. Bot. 6. 66. Don, Mill. 1. 19. Torr. & Gray, Fl. 1. 12. Pritzel, l. c. Torr. Fl. N. Y. 1. 7; Pac. R. Rep. 4. 61; Bot. Wilkes, 212. Parry, Pl. Minn. 608. Maxim. Fl. Amur. 17. Hook. f., Arct. Pl. 283. Pl. Bourgeau, 254. Gray, Manual, 38. Lawson, Ranunc. Canad. 27. Traill, Canad. Fl. 81, **t. 10.** Boland. Cat. 3. Brew. & Wats. Bot. Calif. 1. 4.

A. quinquefolia. Linn. Spec. 541. Lam. Dict. 1. 168. Willd. Spec. 2. 1281. Persoon, 1. 97. Barton, Fl. Phil. 2. 20; Fl. N. Am. 2. 7, **t. 39.**

A. pedata. Raf. Jour. Bot. 1. 230. Poir. Suppl. 5. 550. DC. Syst. 1. 214; Prodr. 1. 22. Don, Mill. 1. 21. Walp. Rep. 1. 31. Dietr. Syn. 3. 335.

A. lancifolia. Pursh, 387. DC. Syst. 1. 205; Prodr. 1. 20. Torr. Compend. 223. Don, Mill. 1. 19.

? *A. minima.* DC. Syst. 1. 206; Prodr. 1. 20.

Var. (= *A. trifolia,* Linn.) Gray, Amer. Nat. 7. 422.

A. parviflora. Michx. Fl. 1. 319. DC. Syst. 1. 200; Prodr. 1. 19. Richards. in Frankl. Journ. 12. Spreng. Syst. 2. 661. Hook. Fl. Bor.-Am. 1. 5. Meyer, Pl. Labr. 95. Don, Mill. 1. 38. Cham. in Linn. 6. 574. Hook. & Arn. Bot. Beechey, 121. Torr. & Gray, Fl. 1. 12. Pritz. in Linn. 15. 632 (Walp. Rep. 1. 23). Ledeb. Fl. Ross. 1. 16. Dietr. Syn. 3. 332. Seem. Bot. Herald, 22. Hook. f., Jour. Linn. Soc. 1. 124; Arct. Pl. 283. Pl. Bourgeau, 254. Rothr. Fl. Alask. 442. Gray, Manual, 68. Lawson, Ranunc. Canad. 23. Porter, Fl. Col. 2.

A. cuneifolia. Juss. Ann. Mus. 3. 248, **t. 21, fig. 1.** Persoon, 2. 97. Pursh, 386.

A. borealis. Richards. in Frankl. Journ. 12. Meyer, Pl. Labr. 95.

A. sylvestris, β alba minor. Schrank, Pl. Lab. 28.

A. patens. Linn. Spec. 538. See syn. in DC. Syst. 1. 191; Pritz. in Linn. 15. 579 (Walp. Rep. 1. 16); Ledeb. Fl. Ross. 1. 19 & 729; Regel, Fl. Ost-Sib. 1. 20.—Hook. Fl. Bor.-Am. 1. 4. Torr. & Gray, Fl. 1. 11. Torrey, Nicollet's Rep. 144. Gray, Manual, 1 ed. 5. Hook. f., Arct. Pl. 283. Pl. Bourgeau, 254. Rothr. Fl. Alask. 442.

Var. **Nuttalliana.** Gray, Manual, 36. Porter, Hayd. Rep. 1870, 472; Fl. Col. 2.

Clematis hirsutissima. Pursh, 385. Poir. Suppl. 6. 623. DC. Syst. 1. 155.

A. Ludoviciana. Nutt. Gen. 2. 20. James, Catalogue, 188. Torr. Ann. Lyc. N. Y. 2. 163.

A. Nuttalliana. DC. Syst. 1. 193; Prodr. 1. 17. Richards. in Frankl. Journ. 12. Nutt. in Jour. Acad. Philad. 5, 158, **t. 8**; Pl. Wyeth, in same, 7. 7. Don, Mill. 1. 16. Dietr. Syn. 3. 331.

Pulsatilla Nuttalliana. Spreng. Syst. 2. 663. Gray, Manual, 2 ed. 4; Am. Jour. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 56.

A. flavescens. Zucc. in Regensb. Zeit. 1. 371. Pritz. in Linn. 15. 585 (Walp. Rep. 1. 16).

Pulsatilla patens, var. (*Wolfgangiana*). Ledeb. l. c. Turcz. Fl. Baic. 1. 36. Trautv. & Mey. Fl. Och. 7. Regel, l. c.

Pulsatilla patens. Gray, Genera, 1. 18, **t. 3**; Pl. Fendl. 4; Pac. R. Rep. 12. 40. Parry, Pl. Minn. 608. Lawson, Ranunc. Canad. 22.

A. Richardsoni. Hook. Fl. Bor.-Am. 1. 6, **t. 4, fig. A.** Don, Mill. 1. 19. Schlecht. in Linn. 6. 575. Torr. & Gray, Fl. 1. 13. Ledeb. Fl. Ross. 1. 16. Pritz. in Linn. 15. 644 (Walp. Rep. 1. 24). Dietr. Syn. 3. 333. Seem. Bot. Herald, 22. Lange,

Pl. Grönl. 128. Hook. f., Jour. Linn. Soc. 1. 120 & 124; Arct. Pl. 283 & 311. Regel & Til. Fl. Ajan. 27. Rothr. Fl. Alask. 442. Lawson, Ranunc. Canad. 29.

A. ranunculoides, var. Richards. in Frankl. Journ. 12.

A. Vahlii. Hornem. Fl. Dan. 13, **t. 2176**.

A. Virginiana. Linn. Spec. 540. Lam. Dict. 1. 167. Walt. Fl. Car. 157. Gært. Fruct. 1. 357, **t. 74**. Ait. Hort. Kew. 2. 256. Willd. Spec. 2. 1279. Michx. Fl. 1. 320. Persoon, 2. 97. Schult. Obs. Bot. 102. Pursh, 388. DC. Syst. 1. 208; Prodr. 1. 21. James, Long's Exped. 1. 63. Spreng. Syst. 2. 662. Hook. Fl. Bor.-Am. 1. 7, **t. 4, fig. B**; Jour. Bot. 1. 187. Don, Mill. 1. 20. Torr. & Gray, Fl. 1. 13. Spach, Hist. Veg. 7. 247. Pritz. in Linn. 15. 671 (Walp. Rep. 1. 28). Dietr. Syn. 3. 333. Torr. Fl. N. Y. 1. 8. Lesqx. Fl. Arkansas, 346. Parry, Pl. Minn. 608. Chapman, 5. Pl. Bourgeau, 254. Baillon, Hist. Pl. 1. 46, **fig. 81, 82**. Gray, Manual, 37. Lawson, Ranunc. Canad. 25.

A. hirsuta. Moench, Meth. 105.

A. Walteri. Pursh, 387. Poir. Suppl. 5. 550. DC. Syst. 1. 214; Prodr. 1. 22. Elliott, 2. 54. Don, Mill. 1. 21. Torr. & Gray, Fl. 1. 14. Pritz. in Linn. 15. 697 (Walp. Rep. 1. 31). Dietr. Syn. 3. 335. Very doubtful species.

Thalictrum Carolinianum. Walt. Fl. Car. 157. Spreng. Syst. 2. 674.

CROSS-REFERENCES.

A. aconitifolia; dichotoma.
Baidensis; multifida.
Berlandieri; decapetala.
borealis; parviflora.
Canadensis; dichotoma.
Caroliniana; decapetala, heterophylla.
Commersoniana; multifida.
cuneifolia; parviflora.
flavescens; patens.
Grœnlandica; Coptis trifolia.
hirsuta; Virginiana.
Hudsoniana; multifida.
irregularis; dichotoma
lancifolia; nemorosa.
A. lanigera; multifida.
Ludoviciana; patens.
minima; nemorosa.
narcissiflora; multifida.
Nuttalliana; patens.
pedata; nemorosa.
Pennsylvanica; dichotoma.
quinquefolia; nemorosa.
ranunculoides; Richardsoni.
sylvestris; parviflora.
tenella; decapetala.
thalictroides; Thalictrum anemonoides.
trilobata; decapetala.
Vahlii; Richardsoni.

AQUILEGIA brevistyla. Hook. Fl. Bor.-Am. 1. 24. Don, Mill. 1. 49. Torr. & Gray, Fl. 1. 30. Walp. Rep. 1. 51. Dietr. Syn. 3. 290. Seem. Bot. Herald, 50. Hook. f., Arct. Pl. 284 & 313. Pl. Bourgeau, 254. Lawson, Ranunc. Canad. 47.

A. vulgaris? Richards. in Frankl. Journ. 12.

A. vulgaris, var. *brevistyla*. Gray, Am. Jour. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 57. Porter, Fl. Col. 4.

A. cærulea. James, Long's Exped. 2. 345. Torr. Ann. Lyc. N. Y. 2. 164; Fremont's Rep. 87. Don, Mill. 1. 49. Torr. & Gray, Fl. 1. 30. Hook. & Arn. Bot. Beechey, 317, **t. 72**. Walp. Rep. 1. 51. Dietr. Syn. 3. 290. Gray, Am. Jour. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 57. Hook. f., Bot. Mag. **t. 5477**. Moore, Fl. Mag. **t. 254**. Wood, Bot. & Fl. 22. Watson, King's Rep. 5. 16. Porter, Hayd. Rep. 1870, 472; 1871, 477; Fl. Col. 4. Coulter, Hayd. Rep. 1872, 759.

A. leptocera. Nutt. in Jour. Acad. Philad. 7. 9. Hook. Bot. Mag. **t. 4407**.

A. Canadensis. Linn. Spec. 533. Hill, Veg. Syst. 24, **t. 23, fig. 2**. Lam. Dict.

1. 150. Amer. Gewachs. **t. 184.** Walt. Fl. Car. 156. Ait. Hort. Kew. 2. 248. Sims, Bot. Mag. **t. 246.** Willd. Spec. 2. 1247. Michx. Fl. 1. 316. Schkuhr, Handb. **t. 146.** Pursh, 372. DC. Syst. 1. 337; Prodr. 1. 50. Barton, Fl. N. Am. 1. 130, **t. 36.** Elliott, 2. 20. Lodd. Bot. Cab. **t. 888.** Spreng. Syst. 2. 680. Maund, Bot. Gard. 7, **t. 322.** Hook. Fl. Bor.-Am. 1. 24, in part. Don, Mill. 1. 49. Audubon, Birds, 3, **t. 155.** Torr. & Gray, Fl. 1. 29; Pac. R. Rep. 2. 119. Spach, Hist. Veg. 7. 335. Walp. Rep. 1. 51. Dietr. Syn. 3. 290. Torr. Fl. N. Y. 1. 20; Nicoll. Rep. 144. Nees, Pl. Wied, 3. Gray, Genera, 1. 40, **t. 14**; Pl. Fendl. 4; Struct. Bot. 380, **fig. 646-650**; Pac. R. Rep. 12. 40; Manual, 45. C. A. Meyer in Sert. Petrop. under t. 11. Parry, Pl. Minn. 609. Hook. f. & Thomp. Fl. Ind. 1. 44. Newberry, Pac. R. Rep. 6. 65. Lesqx. Fl. Ark. 346. Chapman, 9. Hook. f., Arct. Pl. 284 & 318. Pl. Bourgeau, 254. Regel, Ind. Sem. Petr. 1866, 100. Lawson, Ranunc. Canad. 46. Verlot, Pl. Alp. 308, **t. 46.** Porter, Fl. Col. 4.

A. variegata. Moench, Meth. 311.

A. elegans. Salisb. Prodr. 374.

A. flaviflora. Tenney, Am. Naturalist, 1. 388.

A. chrysantha. Gray, Proc. Am. Acad. 8. 621. Thurber, Am. Agriculturist, Sept. 1873, with **fig.** Masters, Gard. Chron. 1873, 1335 & 1501, **fig. 304.** Floral Mag. 1873, **t. 88.** Porter, Fl. Col. 4.

A. leptocera, var. *flava.* Gray, Pl. Wright, 2. 9; Pl. Thurb. 301. Torrey, Mex. Bound. 30.

A. leptoceras, var. *chrysantha.* Hook. f., Bot. Mag. **t. 6073.**

A. flavescens. Watson, King's Rep. 5. 10. Gray, Am. Jour. Sci. 3. 3. 149. Porter, Hayd. Rep. 1871, 477. Coulter, same, 1872, 759.

A. Canadensis, var. *aurea.* Regel, Gart. Fl. 1872, 246 & 258, **t. 734.**

A. formosa. Fisch. in DC. Prodr. 1. 50. Spreng. Syst. 2. 680. Don, Mill. 1. 49. Torr. & Gray, Fl. 1. 30. Ledeb. Fl. Ross. 1. 56. Dietr. Syn. 3. 290. C. A. Meyer in Sert. Petrop. under t. 11. Durand, Pl. Pratten. 80. Walp. Ann. 4. 26. Planch. Fl. des Serres, 8. 125, **t. 795.** Rothr. Fl. Alask. 442. Gray, Proc. Am. Acad. 7. 328 & 8. 375. Brew. & Wats. Bot. Calif. 1. 10.

A. Canadensis. Hook. Fl. Bor.-Am. 1. 24, in part. Bong. Sitch. 124.

A. arctica. Loud. Hort. Brit. 610.

A. Canadensis, var. Torrey, Pac. R. Rep. 462; Mex. Bound. 30.

A. Canadensis, var. *formosa.* Cooper, Pac. R. Rep. 12. 55. Watson, King's Rep. 5. 10. Torrey, Bot. Wilkes, 216.

A. Jonesii. Parry, Am. Naturalist, 8. 211.

A. truncata. Fisch. & Mey. Ind. Sem. Petr. 1843, Suppl. 8 (Linn. 18. 206; Walp. Rep. 5. 6). C. A. Mey. in Sert. Petr., **t. 11.** Brew. & Wats. l. c.

A. Canadensis. Benth. Pl. Hartw. 296.

A. Californica. Lindl. in Gard. Chron. 1854, 836, & 1857, 382. Gray, Proc. Am. Acad. 7. 328. Anderson, Cat. Fl. Nev. 117. Boland. Cat. 3.

A. eximia. Van Houtte, Fl. des Serres, 12. 13, **t. 1188** (Walp. Ann. 7. 30). Morren, Belg. Hort. 7, **t. 52, fig. 2.**

A. Canadensis, var. *longistyla.* Regel, Ind. Sem. Petr. 1866, 101.

CALTHA leptosepala. DC. Syst. 1. 310; Prodr. 1. 45. James, Long's Exp. 2. 215. Spreng. Syst. 2. 660. Hook. Fl. Bor.-Am. 1. 22, **t. 10.** Don, Mill. 1. 44. Torr. & Gray, Fl. 1. 27. Ledeb. Fl. Ross. 1. 49. Dietr. Syn. 3. 335. Gray, Pl. Fendl. 4; Am. Jour. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 57; Proc. Am. Acad. 8. 375. Rothr. Fl. Alask. 442. Watson, King's Rep. 5. 10. Porter, Hayd. Rep. 1871, 477; Fl. Col. 4. Coulter, Hayd. Rep. 1872, 759. Brew. & Wats. l. c. 9.

C. sagittata. Torr. in Ann. Lyc. N. Y. 2. 164, excl. syn.

C. natans. Pall. Itin. 3. 248. Gmel. Fl. Sib. 4. 192, **t. 82.** Forst. Trans. Linn. Soc. 8. 324. Willd. Spec. 2. 1339. Pursh, 390. DC. Syst. 1. 31; Prodr. 1. 45. Richards. in Frankl. Journ. 14. Hook. Fl. Bor.-Am. 1. 22. Don, Mill. 1. 44. Torr. & Gray, Fl. 1. 27. Ledeb. Fl. Ross. 1. 49. Dietr. Syn. 3. 335. Regel, Fl. Ost-Sib. 1. 52. Lawson, Ranunc. Canad. 45. Referred to *C. palustris* by Hook. f. in Arct. Pl. 283 & 312.

C. palustris, Linn. See syn. in DC. Syst. 1. 308; Ledeb. Fl. Ross. 1. 48 & 734; Hook. f. & Thomp. Fl. Ind. 1. 40; Regel, Fl. Ost-Sib. 1. 52.—Michx. Fl. 1. 324. Pursh, 390. Richards. in Frankl. Journ. 14. Hook. Fl. Bor.-Am. 1. 22. Don, Mill. 1. 43. Schlecht. in Linn. 6. 580. Torr. & Gray, Fl. 1. 26. Torr. Fl. N. Y. 1. 17. Gray, Genera, 1. 32, **t. 10**; Manual, 44. Parry, Pl. Minn. 609. Seem. Bot. Herald, 50. Lesqx. Fl. Ark. 346. Hook. f., Arct. Pl. 283 & 312. Pl. Bourgeau, 254. Baillon, Hist. Pl. 1. 23, **fig. 39-42.** Lawson, Ranunc. Canad. 44.

C. arctica. R. Brown in Parr. 1st Voy. Appx. 265 (Beil. zu Flora, 7². 70). Hook. Fl. Bor.-Am. 1. 22. Don, Mill. 1. 44. Torr. & Gray, Fl. 1. 27. Walp. Rep. 1. 47. Dietr. Syn. 3. 335. Seem. Bot. Herald, 50. Hook. f. in Jour. Linn. Soc. 1. 120 & 124. Rothr. Fl. Alask. 442.

Var. **Sibirica.** Regel, Fl. Ost-Sib. 1. 52.

Ranunculus Ficaria. Walt. Fl. Car. 159.

C. ficarioides. Pursh, 389. DC. Syst. 1. 310. Elliott, 2. 66.

C. parnassifolia. Raf. Med. Rep. 5. 361; Jour. Bot. 1. 229. Nutt. Genera, 2. 22. DC. Prodr. 1. 45. Spreng. Syst. 2. 660. Torrey, Compend. 224. Don, Mill. 1. 44.

C. flabellifolia. Pursh, 390, **t. 17.** DC. Syst. 1. 310; Prodr. 1. 45. Spreng. Syst. 2. 659. Torrey, Compend. 224. Don, Mill. 1. 44.

C. dentata. Muhl. Cat. 2 ed. 56.

C. integerrima. Pursh, 390. DC. Syst. 1. 309; Prodr. 1. 45. Spreng. Syst. 2. 659. Torrey, Compend. 224. Don, Mill. 1. 44.

C. asarifolia. DC. Syst. 1. 309; Prodr. 1. 45. Spreng. Syst. 2. 659. Hook. Fl. Bor.-Am. 1. 22. Don, Mill. 1. 44. Torr. & Gray, Fl. 1. 27. Dietr. Syn. 3. 335.

C. palustris, var. *parnassifolia.* Torr. & Gray, Fl. 1. 26. Chapman, 9.

vars. *flabellifolia* and *integerrima.* Torr. & Gray, Fl. 1. 26.

var. *asarifolia.* Rothr. Fl. Alask. 442.

Var. **minima.** Regel, Fl. Ost-Sib. 1. 52.

C. biflora. DC. Syst. 1. 310; Prodr. 1. 45. Spreng. Syst. 2. 660. Hook. Fl. Bor.-Am. 1. 22. Don, Mill. 1. 44. Torr. & Gray, Fl. 1. 27. Dietr. Syn. 3. 336. Torrey, Bot. Wilkes, 215.

CIMICIFUGA Americana. Michx. Fl. 1. 316. Poir. Suppl. 2. 261. Spreng. Syst. 2. 628. Don, Mill. 1. 64. Fisch. & Mey. Ind. Sem. Petr. 1. 21 (Litterb. zu Linn. 10. 82; Ann. Sci. Nat. 2. 4. 334). Torr. & Gray, Fl. 1. 36. Spach, Hist. Veg. 7. 391. Dietr. Syn. 3. 289. Gray, Genera, 1. 52, **t. 30, fig. 14-19**; Manual, 48. Chapman, 12.

Actæa podocarpa. DC. Syst. 1. 382; Prodr. 1. 64. Deless. Icon. Sel. 1, **t. 66.**

C. podocarpa. Elliott, 2. 16.

C. cordifolia. Pursh, 373. Sims, Bot. Mag. **t. 2069.** Elliott, 2. 17, excl. syn. Spreng. Syst. 2. 628. Don, Mill. 1. 64. Fisch. & Mey. ll. cc. Torr. & Gray, 1. 36. Walp. Rep. 1. 60. Gray, Am. Jour. Sci. 1. 42. 47 (Lond. Jour. Bot. 3. 240). Dietr. Syn. 3. 289. Chapman, 12. Wood, Cl.-Book, 211; Bot. & Fl. 23.

C. Americana. Muhl. Cat. 2 ed. 54.
Actæa cordifolia. DC. Syst. 1. 383; Prodr. 1. 64.

C. elata. Nutt. in Torr. & Gray, Fl. 1. 36. Walp. Rep. 1. 61. Dietr. Syn. 3. 289. Gray, Proc. Am. Acad. 8. 375.
C. fœtida. Pursh, 373?
Actæa cimicifuga. Hook. Fl. Bor.-Am. 1. 27.

C. racemosa. Nutt. Genera, 2. 15. Bart. Fl. Phil. 2. 12. Elliott, 2. 16. Torr. & Gray, Fl. 1. 36. Dietr. Syn. 3. 289. Torr. Fl. N. Y. 1. 22, **t. 4.** Gray, Genera, 1. 51, **t. 20**; Manual, 48. Lesqx. Fl. Ark. 347. Chapman, 11. Lawson, Ranunc. Canad. 50.
Actæa racemosa. Linn. Spec. 504; Amœn. 7. 193, **t. 4.** Hill, Veg. Syst. 11. 31, **t. 12, fig. 2.** Lam. Dict. 1. 38. Ait. Hort. Kew. 2. 221. Willd. Spec. 2. 1139. Michx. Fl. 1. 308. DC. Syst. 1. 384; Prodr. 1. 64. Lam. Ill. 315, **t. 448, fig. 2.** Hook. Fl. Bor.-Am. 1. 27. Regel, Gart. Fl. 13. 200, **fig. 443.** Baillon, Hist. Pl. 1. 60, **fig. 103.**
Actæa monogyna. Walt. Fl. Car. 151.
Macrotys actæoides. Raf. in N. Y. Med. Rep. 5. 354; Desv. Jour. Bot. 2. 170.
C. serpentaria. Pursh, 372. Spreng. Syst. 2. 628. Don, Mill. 1. 64.
Botrophis serpentaria. Raf. Med. Fl. 1. 85, **fig. 16.**
Macrotys serpentaria. Eaton, Manual, 4 ed. 3[illegible].
Macrotys racemosa. Eaton, Manual, 5 ed. 2[illegible]8. Eat. & Wr. 311.
Botrophis actæoides. Fisch. & Mey. ll. cc. Spach, Hist. Veg. 7. 393.
Actæa orthostachya and *gyrostachya.* Wendroth, "Ind. Sem. h. Marb. 1840" (Litterb. zu Linn. 1841, 100; Walp. Rep. 1. 60).

CLEMATIS alpina, Mill. See syn. in DC. Syst. 1. 165; Schlecht. Linn. 6. 571; Ledeb. Fl. Ross. 1. 4. — Gray, Proc. Acad. Philad. 1863, 56.

Var. **Ochotensis.** Gray, Am. Jour. Sci. 2. 33. 408. Watson, King's Rep. 5. 3. Porter, Hayd. Rep. 1871, 4 7; Fl. Col. 1. Coulter, Hayd. Rep. 1872, 758.
Atragene Ochotensis. Pall. Fl. Ross. 2. 69. Gray, Pl. Fendl. 4.
Atragene alpina. Torrey, Mex. Bound. 29. Porter, Hayd. Rep. 1870, 472.

C. Baldwinii. Torr. & Gray, Fl. 1. 8. Walp. Rep. 1. 7. Dietr. Syn. 3. 347. Chapman, 3. Wood, Cl.-Book, 202; Bot. & Fl. 17.

C. Bigelovii. Torrey, Pac. R. Rep. 4. 61.

C. Catesbyana. Pursh, 736. DC. Syst. 1. 142; Prodr. 1. 4. Elliott, 2. 44. Spreng. Syst. 2. 669. Don, Mill. 1. 5. Torr. & Gray, Fl. 1. 657. Chapman, 4. Wood, Cl.-Book, 201; Bot. & Fl. 17.
C. Plukenetii. DC. Syst. 1. 153; Prodr. 1. 7. Spreng. Syst. 2. 665. Don, Mill. 1. 7. Torr. & Gray, Fl. 1. 11 & 657. Dietr. Syn. 3. 347.

C. crispa. Linn. Spec. 543. Walt. Fl. Car. 157. Lam. Dict. 2. 44. Ait. Hort. Kew. 2. 259. Willd. Spec. 2. 1289. Michx. Fl. 1. 318. Persoon, 2. 99. Pursh, 384. Sims, Bot. Mag. **t. 1892.** Elliott, 2. 49. DC. Prodr. 1. 9. Don, Mill. 1. 9. Torr. & Gray, Fl. 1. 10. Dietr. Syn. 3. 349. Loud. Arbor. 1. 243, **fig. 21.** Lindl. Bot. Reg. 32, **t. 60.** Gray, Genera, 1. 16, **t. 2**; Hall, Pl. Tex. 3. Chapman, 3. Wood, Bot. & Fl. 17.
Clematitis crispa. Moench, Meth. 296.
C. viorna. Andr. Bot. Rep. **t. 71,** not Linn.
C. cylindrica. Sims, Bot. Mag. **t. 1160.** Ait. f., Hort. Kew. 3. 343. Pursh, 385. Poir. Suppl. 5. 623. DC. Syst. 1. 156; Prodr. 1. 7. Elliott, 2. 47. Spreng. Syst. 2. 666. Don, Mill. 1. 8. Torr. & Gray, Fl. 1. 10 & 657. Dietr. Syn. 3. 348. Loud. Arbor. 1. 239, **fig. 15.** Gray, Genera, 1. 16; Pl. Lindh. 3; Manual, 36.

C. divaricata. Jacq. Eclog. 1. 51 & 152, **t. 33.**

C. Walteri. Pursh, 384. Poir. Suppl. 5. 623. DC. Syst. 1 155; Prodr. 1. 7. Elliott, 2. 45. Spreng. Syst. 2. 666. Don, Mill. 1. 7. Hook. Jour. Bot. 1. 185. Dietr Syn. 3. 347.

C. cordata. Sims, Bot. Mag. **t. 1816,** not Pursh. Poir. Suppl. 5. 622.

C. linariloba. DC. Syst. 1. 155; Prodr. 1. 7. Deless. Icon. 1. 1, **t. 3.** Elliott, 2. 45. Spreng. Syst. 2. 666. Don, Mill. 1. 7, **fig. 4.** Torr. & Gray, Fl. 1. 10. Dietr. Syn. 3. 347.

C. Simsii. Sweet, Hort. Brit. 1. Don, Mill. 1. 8. Walp. Rep. 1. 7. Dietr. Syn. 3. 348. Loud. Arbor. 1. 240, **fig. 16.**

Viticella crispa. Spach, Hist. Veg. 7. 267.

Viorna cylindrica. Spach, Hist. Veg. 7. 269.

C. cylindrica, var. *crispa.* Wood, Cl.-Book, 201.

C. Douglasii. Hook. Fl. Bor.-Am. 1. 1, **t. 1**; Lond. Jour. Bot. 6. 65. Don, Mill. 1. 8. Torr. & Gray, Fl. 1. 8 & 657. Walp. Rep. 1. 7. Dietr. Syn. 3. 348. Gray, Am. Jour. Sci. 2. 33. 408; Proc. Acad. Philad. 1863, 56. Watson, King's Rep. 5. 3. Porter, Hayd. Rep. 1871, 477; Fl. Col. 1. Coulter, Hayd. Rep. 1872, 758. Torrey, Bot. Wilkes, 211.

C. Wyethii. Nutt. in Jour. Acad. Philad. 7. 6. Torr. & Gray, Fl. 1. 8. Walp. Rep. 1. 7.

C. Drummondii. Torr. & Gray, Fl. 1. 9; Pac. R. Rep. 2. 159. Walp. Rep. 1. 7. Dietr. Syn. 3. 345. Gray, Pl. Lindh. 141; Pl. Wright. 1. 7. Seem. Bot. Herald, 267. Torrey, Mex. Bound. 29. Young, Fl. Tex. 140. Brew. & Wats. Bot. Calif. 1. 3.

C. nervata. Benth. Pl. Hartw. 5. Walp. Rep. 1. 7.

C. holosericea. Pursh, 384. Poir. Suppl. 5. 623. DC. Syst. 1. 145; Prodr. 1. 5. Elliott, 2. 45. Spreng. Syst. 2. 669. Don, Mill. 1. 6. Torr. & Gray, Fl. 1. 8 & 657. Dietr. Syn. 3. 345. Chapman, 4. Wood, Bot. & Fl. 17.

C. lasiantha. Nutt.; Torr. & Gray, Fl. 1. 9. Walp. l. c. Eat. & Wr. 200. Dietr. l. c. Seem. Bot. Herald, 267 (to *C. Peruviana,* DC.). Torr. Pac. R. Rep. 4. 61; Mex. Bound. 29, **t. 1.** Wood, Cl.-Book, 202? Boland. Cat. 3. Brew. & Wats. l. c.

C. ligusticifolia. Nutt.; Torr. & Gray, Fl. 1. 9. Walp. l. c. Dietr. l. c. Eat. & Wr. 200. Gray, Pl. Fendl. 3; Pl. Wright. 2. 7; Proc. Bost. Soc. 7. 145; Proc. Acad. Philad. 1863, 56; Proc. Am. Acad. 8. 372. Torrey, Stansbury's Rep. 383; Sitgreave's Rep. 155; Pac. R. Rep. 4. 61; Mex. Bound. 29. Newberry, Pac. R. Rep. 6. 65. Cooper, same, 12. 30. Pl. Bourgeau, 254. Watson, King's Rep. 5. 3. Porter, Hayd. Rep. 1870, 472; 1871, 477; Fl. Col. 1. Coulter, Hayd. Rep. 1872, 758. Brew. & Wats. Bot. Calif. 1. 3.

C. Virginiana. Hook. Fl. Bor.-Am. 1. 1, in part.

Var. **brevifolia.** Nutt.; Torr. & Gray, Fl. 1. 9. Watson, l. c. Coulter, l. c.

Var. **bracteata.** Torrey, Bot. Wilkes. 211.

Var. **Californica.** Watson, Bot. Calif. 1. 3.

C. ligusticifolia var. *brevifolia.* Benth. Pl. Hartw. 294.

C. ligusticifolia. Dur. & Hilg. Pac. R. Rep. 5. 5. Boland. Cat. 3.

C. ochroleuca. Ait. Hort. Kew. 2. 260. Willd. Spec. 2. 1294. Persoon, 2. 100. Poir. Suppl. 2. 296. DC. Syst. 1. 159; Prodr. 1. 8. Lodd. Bot. Cab. **t. 661.** Elliott, 2. 48. Torrey, Compend. 222; Fl. N. Y. 1. 6, **t. 1.** Spreng. Syst. 2. 665. Don, Mill. 1. 8. Beck, Bot. 4. Torr. & Gray, Fl. 1. 7. Eat. & Wr. 199. Dietr. 3. 348. Lesqx. Fl. Ark. 346. Chapman, 3. Gray, Manual, 35.

C. sericea. Michx. Fl. 1. 319; not HBK. Pursh, 385. Poir. Suppl. 2. 298.

C. ovata. Pursh, 736. DC. Syst. 1. 159; Prodr. 1. 8. Elliott, 2. 48. Spreng. Syst. 2. 665. Don, Mill. 1. 8. Torr. & Gray, Fl. 1. 8 & 657. Dietr. Syn. 3. 348. Chapman, 3. Wood, Bot. & Fl. 17.

C. Pennsylvanica, Donn, Hort. Brit. Muhl. Ind. Fl. Lanc. 172; Cat. 56. Turcz. in Bull Soc. Mosc. 27 2. 273. Walp. Ann. 7. 4. A doubtful species.

C. Pitcheri. Torr. & Gray, Fl. 1. 10; Pac. R. Rep. 2. 125. Walp. Rep. 1. 7. Dietr. Syn. 3. 348. Gray, Pl. Fendl. 4; Pl. Wright, 2. 7; Manual, 36. Torrey, Marcy's Rep. 280; Mex. Bound. 29. Seem. Bot. Herald, 267 (referring it to *C. reticulata*). Young, Fl. Tex. 140.

C. Coloradoensis. Buckl. Proc. Acad. Philad. 1861, 448. Gray, same, 1862, 161.

C. reticulata. Walt. Fl. Car. 156. Michx. Fl. 1. 318. Persoon, 2. 99. Poir. Suppl. 2. 296. Pursh, 385. DC. Syst. 1. 157; Prodr. 1. 7. Elliott, 2. 47. Spreng. Syst. 2. 666. Don, Mill. 1. 8. Torr. & Gray, Fl. 1. 10 & 658. Dietr. Syn. 3. 348. Loud. Arbor. 1. 240, excl. fig. Lindl. Bot. Reg. 32, under t. 60. Engelm. & Gray, Pl. Lindh. 3. Seem. Bot. Herald, 267. Chapman, 4. Wood, Bot. & Fl. 17.

C. filifera. Benth. Pl. Hartw. 285 (f. Seem. l. c.) Walp. Ann. 2. 4.

Var (?) Gray, Pl. Wright. 2. 7. Torrey, Mex. Bound. 29.

C. Scottii. Porter, Fl. Colorado, 1.

C. verticillaris. DC. Syst. 1. 166; Prodr. 1. 10. Hook. Fl. Bor.-Am. 1. 2; Lond. Jour. Bot. 6. 66. Torr. & Gray, Fl. 1. 10. Torrey, Fl. N. Y 1. 7; Bot. Wilkes, 212. Gray, Manual, 35. Lawson, Ranunc. Canad. 20. Watson, King's Rep. 5. 4. Porter, Hayd. Rep. 1871, 477. Coulter, same, 1872, 758.

Atragene Americana. Sims, Bot. Mag. **t. 887.** Ait. f., Hort. Kew. 3. 342. Pursh, 384. Spreng. Syst. 2. 644. Don, Mill. 1. 10. Spach, Hist. Veg. 7. 260. Dietr. Syn. 3. 349. Loud. Arbor. 1. 248, **fig. 27.** Gray, Genera, 1. 14. **t. 1.** Revue Hort. 1854, **t. 7** and 1855, **t. 17.** Curtis, Bot. N. Car. 120. Chapman, 3. Pl. Bourgeau, 254.

C. Americana. Poir. Suppl. 5. 622.

Atragene Columbiana. Nutt. in Jour. Acad. Philad. 7. 7. Walp. Rep. 1. 9. Dietr. Syn. 3. 350.

C. Columbiana. Torr. & Gray, Fl. 1. 11.

C. Viorna. Linn. Spec. 543. Jacq. f., Ecl. 1. 50, **t. 32.** Lam. Dict. 2. 44. Walt. Fl. Car. 156. Ait. Hort. Kew. 2. 259. Willd. Spec. 2. 1288. Andr. Bot. Rep. 1. 71. Ker, Rev. Bot. Rep. 28. Michx. Fl. 1. 318. Persoon, 2. 99. Pursh, 385. DC. Syst. 1. 156; Prodr. 1. 7. Elliott, 2. 46. Don, Mill. 1. 8. Hook. Jour. Bot. 1. 186. Torr. & Gray, Fl. 1. 9. Dietr. Syn. 3. 347. Loud. Arbor. 1. 238, **fig. 14.** Lindl. Bot. Reg. 32, under t. 60. Parry, Pl. Minn. 608. Chapman, 3. Gray, Manual, 36.

Viorna urnigera. Spach, Hist. Veg. 7. 270.

Var. **coccinea.** James, Long's Exped. 1. 54. Gray, Pl. Wright. 2. 7.

C. Texensis. Buckl. in Proc. Acad. Philad. 1861, 448 and 1870, 135. Gray, in same, 1862, 161.

C. Virginiana. Linn. Amœn. 4. 275. Lam. Dict. 2. 43. Walt. Fl. Car. 157. Ait. Hort. Kew. 2. 259. Willd. Spec. 2. 1290. Michx. Fl. 1. 318. Persoon, 2. 99. Pursh, 384. DC. Syst. 1. 142; Prodr. 1. 4. James, Long's Exped. 2. 343. Elliott, 2. 44. "Wats. Dendr. t. 74." Hook. Fl. Bor.-Am. 1. 1, in part; Lond. Jour. Bot. 6. 66. Don, Mill. 1. 5. Torr. & Gray, Fl. 1. 8 & 657. Spach, Hist. Veg. 7. 278. Dietr. Syn. 3. 345. Torr. Fl. N. Y. 1. 6; Fremont's Rep. 87; Emory's Rep. 136 & 406. Loud. Arbor. 1. 237, **fig. 13.** Richards. Arct. Exped. 442. Gray, Pac. R. Rep.

12. 40; Manual, 36. Curtis, Bot. N. Car. 120. Parry, Pl. Minn. 608. Lesqx. Fl. Ark. 374. Chapman, 4. Lawson, Ranunc. Canad. 20.

C. fragrans. Salisb. Prodr. 371.

C. cordifolia. Moench, Suppl. 104.

C. cordata. Pursh, 384. DC. Prodr. 1. 4, excl. syn. Spreng. Syst. 2. 670. Don, Mill. 1. 5. Nees, Pl. Wied, 3.

C. Purshii. Dietr. Syn. 3. 345.

Var. **bracteata.** DC. Syst. 1. 142; Prodr. 1. 4. Don, Mill. 1. 5. Loud. Arbor. 1. 237.

C. bracteata. Moench, Suppl. 103.

COPTIS asplenifolia. Salisb. in Trans. Linn. Soc. 8. 306. Pursh, 391. Poir. Suppl. 5. 628. DC. Syst. 1. 322; Prodr. 1. 47. Spreng. Syst. 2. 659. Hook. Fl. Bor.-Am. 1. 23, **t. 11.** Bong. Sitch. 124. Nutt. in Jour. Acad. Philad. 7. 9. Ledeb. Fl. Ross. 1. 53. Torr. & Gray, Fl. 1. 28. Dietr. Syn. 3. 338. Gray, Proc. Am. Acad. 8. 375.

C. occidentalis. Torr. & Gray, Fl. 1. 28. Walp. Rep. 1. 49. Dietr. Syn. 3. 338. Hook. in Lond. Jour. Bot. 6. 67. Miquel, Ann. Mus. Bot. Lugd.-Bat. 3. 7. Torrey, Bot. Wilkes, 216.

Chrysocoptis occidentalis. Nutt. in Jour. Acad. Philad. 7. 9, **t. 1.**

C. trifolia. Salisb. in Trans. Linn. Soc. 8. 305. See syn. in DC. Syst. 1. 322. — Pursh, 390. Hornem. Fl. Dan. 9, **t. 1519.** Poir. Suppl. 5. 627. Lodd. Bot. Cab. **t. 173.** Bigel. Med. Bot. 1. 60, **t. 5.** Spreng. Syst. 2. 659. Raf. Med. Bot. 1. 127, **fig. 27.** E. Meyer, Pl. Lab. 97. Hook. Fl. Bor.-Am. 1. 23; Jour. Linn. Soc. 5. 82. Bong. Sitch. 123. Schlecht. in Linn. 6. 581 & 10. 104. Torr. & Gray, Fl. 1. 28. Spach, Hist. Veg. 7. 325. Lindl. Fl. Med. 8. Ledeb. Fl. Ross. 1. 52. Torrey, Fl. N. Y. 1. 18. Gray, Genera, 1. 38, **t. 13**; Manual, 45. Lange, Pl. Grönl. 129. Hook. f., Arct. Pl. 284. Pl. Bourgeau, 254. Rothr. Fl. Alask. 442. Lawson, Ranunc. Canad. 45.

Helleborus trifolius. Linn. Amœn. 2. 355, **t. 4, fig. 18.** Hill, Veg. Syst. 24, **t. 13, fig. 2.** Ait. Hort. Kew. 2. 273. Willd. Spec. 2. 1338. Michx. Fl. 1. 325. Baillon, Hist. Pl. 1. 18, **fig. 34.**

Anemone Grœnlandica. Muell. Fl. Dan. 4, **t. 566.**

Helleborus trilobus. Lam. Dict. 3. 98.

Chrysa borealis. Raf. in N. Y. Med. Rep. 5. 350. Desv. in Journ. Bot. 2. 170.

DELPHINIUM azureum. Michx. Fl. 1. 314. Persoon, 2. 82. Poir. Suppl. 2. 458. Pursh, 371. Nutt. Gen. 2. 14. DC. Syst. 1. 356; Prodr. 1. 54. Deless. Icon. 1. 16, **t. 60.** Elliott, 2. 18. Torrey, Compend. 218; Ann. Lyc. N. Y. 2. 163; Nicol. Rep. 144; Emory's Rep. 406; Stansb. Rep. 383; Sitgr. Rep. 155; Marcy's Rep. 280; Mex. Bound. 30. Spreng. Syst. 2. 618. Don, Mill. 1. 53. Beck, Bot. 13. Lindl. Bot. Reg. 23, **t. 1999.** Torr. & Gray, Fl. 1. 32 & 660; Pac. R. Rep. 2. 125 & 159. Eat. & Wr. 221. Nees, Pl. Neuwied, 3. Dietr. Syn. 3. 280. Engelm. in Wisliz. Rep. 3. Gray, Pl. Fendl. 5; Pl. Lindh. 142; Pl. Wright. 2. 8; Pl. Thurb. 290; Pac. R. Rep. 12. 40; Manual, 46; Hall's Pl. Tex. 3. Parry, Pl. Minn. 609. Durand, Fl. Utah, 158. Chapman, 10. Pl. Bourgeau, 254. Lawson, Ranunc. Canad. 48. Porter, Hayd. Rep. 1871, 473; Fl. Col. 5. Parry, Am. Naturalist, 9. 268.

D. Carolinianum. Walter, 155. Bartr. Trav. 328.

D. virescens. Nutt. Gen. 2. 14. DC. Prodr. 1. 53. Schweinitz, Long's Exp. 2, Appx. 114. Spreng. Syst. 2. 618. Torrey, Ann. Lyc. N. Y. 2. 163. Don, Mill. 1. 52. Torr. & Gray, Fl. 1. 32. Eat. & Wr. 221. Dietr. Syn. 3. 278. Gray, Pl. Lindh. 142. Wood, Cl.-Book, 210.

D. vimineum. Don in Sweet's Brit. Fl. t. **374**. Hook. Bot. Mag. t. **3593**. Torr. & Gray, l. c. Eat. & Wr. 222. Walp. Rep. 1. 55. Dietr. l. c. Young, Fl. Tex. 146.

D. simplex. Gray, Pl. Wright. 2. 8.

D. bicolor. Nutt. in Journ. Acad. Philad. 7. 10. Torr. & Gray, Fl. 1. 33. Eat. & Wr. 221. Walp. Rep. 1. 56. Dietr. Syn. 3. 278. Brew. & Wats. Bot. Calif. 1. 11.

D. Menziesii. Durand, Fl. Utah, 158. Gray, Proc. Acad. Philad. 1863, 57. Porter, Hayd. Rep. 1871, 477; Fl. Col. 5. Coulter, Hayd. Rep. 1872, 759.

D. Menziesii, var. *Utahense.* Watson, King's Rep. 5. 12.

D. Californicum. Torr. & Gray, Fl. 1. 31. Eat. & Wr. 222. Walp. Rep. 1. 55. Dietr. Syn. 3. 279. Benth. Pl. Hartw. 296. Gray, Pl. Wright. 2. 9. Torrey, Mex. Bound. 30. Boland. Cat. 4. Brew. & Wats. Bot. Calif. 1. 11.

D. exaltatum. Hook. & Arn. Bot. Beechey, 317, not Ait.

D. cardinale. Hook. Bot. Mag. t. **4887**. Torrey, Pac. R. Rep. 4. 62; Mex. Bound. 30, t. **2**. Walp. Ann. 4. 24. Lemaire, L'Ill. Hort. 3, t. **92**. Regel, Gart. Fl. 6, t. **208**. Fl. des Serres, 11. 63, t. **1105**. Thompson in "Garden," 3. 477 & 12. 176. Brew. & Wats. Bot. Calif. 1. 12.

D. coccineum. Torrey, Pac. R. Rep. 4. 62.

D. decorum. Fisch. & Mey. Ind. Sem. Petr. 3. 33 (Litt.-Ber. zu Linn. 1838, 92). Torr. & Gray, Fl. 1. 661. Walp. Rep. 1. 56. Dietr. Syn. 3. 279. Gray, Pl. Wright. 2. 8; Ives' Rep. 5. Durand, Pl. Pratten. 80. Torrey, Pac. R. Rep. 4. 63 & 7. 7; Mex. Bound. 30. Newberry, Pac. R. Rep. 6. 65. Boland. Cat. 4. Brew. & Wats. l. c. 11.

D. patens. Benth. Pl. Hartw. 296. Walp. Ann. 2. 12. Torrey, Pac. R. Rep. 4. 63; Mex. Bound. 30. Gray, Ives' Rep. 5. Boland. Cat. 4.

D. Menziesii. Torr. Mex. Bound. 30? Gray, Proc. Bost. Soc. 7. 145. Bol. l. c.

Var. **Nevadense.** Watson, Bot. Calif. 1. 11.

D. Menziesii. Durand, Pl. Pratten. 80. Watson, King's Rep. 5. 11, excl. var.

D. decorum. Anderson, Cat. Pl. Nev. 117, in part.

D. depauperatum. Nutt.; Torr. & Gray, Fl. 1. 33. Eat. & Wr. 221. Walp. Rep. 1. 56. Dietr. Syn. 3. 278. Watson, King's Rep. 5. 12. Brew. & Wats. l. c.

D. Menziesii. Torr. & Gray, Pac. R. Rep. 2. 119.

? *D. decorum.* Anderson, Cat. Pl. Nev. 117, in part.

D. exaltatum. Ait. Hort. Kew. 2. 244. Willd. Spec. 2. 1230. Persoon, 2. 82. Pursh, 371. DC. Syst. 1. 357; Prodr. 1. 54. Elliott, 2. 19. Torrey, Compend. 218. Spreng. Syst. 2. 618. Don, Mill. 1. 53. Beck, Bot. 13. Torr. & Gray, Fl. 1. 34. Eat. & Wr. 221. Dietr. l. c. Gray, Pl. Wright. 2. 9; Manual, 46. Chapman, 10.

D. urceolatum. Jacq. Icon. Rar. 1, t. **101**; Collect. 1. 153. Willd. Spec. 2. 1230. Ait. f. Hort. Kew. 3. 321. Poir. Suppl. 2. 457. Hook. Bot. Mag. t. **1791**. Spreng. Syst. 2. 619. Don, Mill. 1. 53.

D. tridactylum. Michx. Fl. 1. 314. Persoon, 2. 82. Poir. Suppl. 2. 458.

D. Menziesii. DC. Syst. 1. 355; Prodr. 1. 54. Spreng. Syst. 2. 618. Lindl. Bot. Reg. 14, t. **1192**. Hook. Fl. Bor.-Am. 1. 25; Lond. Journ. Bot. 6. 67. Don, Mill. 1. 52. Torr. & Gray, Fl. 1. 661. Hook. & Arn. Bot. Beechey, 121 & 317. Ledeb. Fl. Ross. 1. 62. Seem. Bot. Herald, 23. Newberry, Pac. R. Rep. 6. 65. Cooper, same, 12. 55. Torrey, Mex. Bound. 30; Bot. Wilkes, 216. Gray, Proc. Am. Acad. 8. 375. Hook. f. Arct. Pl. 284 & 313. Rothr. Fl. Alask. 442. Porter, Hayd. Rep. 1871, 477; Fl. Col. 5. Coulter, Hayd. Rep. 1872, 759. Brew. & Wats. l. c.

D. pauciflorum. Nutt.; Torr. & Gray, Fl. 1. 33. & 661. Eat. & Wr. 221. Walp. l. c.

D. Nuttallianum. Pritz.; Walp. Rep. 2. 744.

? *D. Middendorffii.* Trautv. in Middend. Sibir. Reis. 63, t. **1**. Walp. Rep. 1. 13.

D. patens. Newberry, Pac. R. Rep. 6. 65.

D. nudicaule. Torr. & Gray, Fl. 1. 33 & 661. Eat. & Wr. 222. Walp. Rep. 1. 56. Dietr. Syn. 3. 278 (as *D. radicale*). Torrey, Pac. R. Rep. 4. 62; Mex. Bound. 30. Newberry, Pac. R. Rep. 6. 65. Hook. f. Bot. Mag. **t. 5819**. Gray, Am. Journ. Sci. 3. 2. 63. Moore, Fl. Mag. **t. 512**. Boland. Cat. 4. Thompson, Garden, 3. 477. Dickson, Trim. Journ. Bot. 10. 45. Brew. & Wats. Bot. Calif. 1. 12.

Var. **elatius.** Gray; Thompson, Garden, 3. 477. Brew. & Wats. l. c.

D. sarcophyllum. Hook. & Arn. Bot. Beechey, 317.

D. scopulorum. Gray, Pl. Wright. 2. 9; Am. Journ. Sci. 2. 33. 242; Proc. Acad. Philad. 1863, 57. Walp. Ann. 4. 24. Torrey, Pac. R. Rep. 4. 63; Mex. Bound. 30. Coulter, Hayd. Rep. 1872, 759. Porter, Fl. Col. 5. Brew. & Wats. l. c. 11.

D. exaltatum. Hook. Fl. Bor.-Am. 1. 25. Lawson, Ranunc. Canad. 47.

D. simplex. Dougl.; Hook. Fl. Bor.-Am. 1. 25; Lond. Journ. Bot. 6. 67. Don, Mill. 1. 53. Hook. & Arn. Bot. Beechey, 317. Eat. & Wr. 221. Benth. Pl. Hartw. 295. Durand, Pl. Pratten. 80. Torrey, Pac. R. Rep. 4. 63; Bot. Wilkes, 217. Cooper, Pac. R. Rep. 12. 51. Boland. Cat. 4. Brew. & Wats. l. c. 10.

D. Menziesii. Torr. & Gray, Fl. 1. 31, not DC. Dietr. Syn. 3. 279.

D. azureum, var. Torr. & Gray, Fl. 1. 660. Hook. & Arn. Bot. Beechey, 317. Benth. Pl. Hartw. 296. Torrey, Pac. R. Rep. 4. 63.

D. azureum. Newberry, Pac. R. Rep. 6. 65. Cooper, same, 12. 55. Torrey, Bot. Wilkes, 217.

D. tricorne. Michx. Fl. 1. 314. Persoon, 2. 82. Poir. Suppl. 2. 458. Pursh, 371. DC. Syst. 1. 356; Prodr. 1. 54. Lodd. Bot. Cab. **t. 306.** Deless. Icon. Sel. 1. 16, **t. 59.** Elliott, 2. 18. Spreng. Syst. 2. 618. Beck, in Am. Journ. Sci. 14. 114. Don, Mill. 1. 52. Torr. & Gray, Fl. 1. 31. Eat. & Wr. 222. Dietr. Syn. 3. 279. Gray, Genera, 1. 42, **t. 15**; Pac. R. Rep. 12. 40; Manual, 46. Lindl. Veg. Kingd. 426, **f. 297**. Chapman, 10.

D. trolliifolium. Gray, Proc. Am. Acad. 8. 375. Brew. & Wats. l. c. 11.

D. elatum, var. Gray, Am. Jour. Sci. 2. 33. 242; Proc. Acad. Philad. 1863, 57.

D. elatum. Porter, Hayd. Rep. 1870, 473

D. elatum, var. (?) *occidentale.* Watson, King's Rep. 5. 11. Porter, Hayd. Rep. 1871, 477; Fl. Col. 4. Coulter, Hayd. Rep. 1872, 759. Brew. & Wats. l. c.

D. variegatum. Torr. & Gray, Fl. 1. 9. Eat. & Wr. 222. Walp. Rep. 1. 55. Dietr. l. c. Torrey, Pac. R. Rep. 4. 63. Boland. Cat. 4. Brew. & Wats. l. c. 10.

D. grandiflorum, var. *variegatum.* Hook. & Arn. Bot. Beechey, 317.

D. decorum. Benth. Pl. Hartw. 295.

HELLEBORUS VIRIDIS, Linn. Torr. & Gray, Fl. 1. 659. Gray, Manual, 45.

HYDRASTIS Canadensis. Linn. Spec. 2 ed. 784. Lam. Dict. 3. 151. Ait. Hort. Kew. 2. 273. Willd. Spec. 2. 1339. Michx. Fl. 1. 317. St. Hil. Fam. Nat. 1. 486. Persoon, 2. 107. Pursh, 389. DC. Syst. 1. 218; Prodr. 123. Elliott, 2. 55. James, Catalogue, 183. Barton, Comp. Fl. Phil. 2. 22. Torrey, Compend. 224; Ann. Lyc. N. Y. 2. 162; Fl. N. Y. 1. 26. Spreng. Syst. 4². 220. "Pict. Hort. Par. 37, **t. 17.**" Raf. Med. Fl. 1. 251, **fig. 51.** Hook. Fl. Bor.-Am. 1. 9; Bot. Mag. **t. 3019** & **3232.** Don, Mill. 1. 22, **fig. 7.** Beck, Bot. 7. Darling. Fl. Cestr. 336. Torr. & Gray, Fl. 1. 40. Spach, Hist. Veg. 7. 384. Eat. & Wr. 276. Lindl. Fl. Med. 3. Nees, Pl. Neuwied, 3. Dietr. Syn. 3. 338. Gray, Genera, 1. 48, **t. 18**; Manual, 47. Chapman, 11. Baillon, Hist. Pl. 1. 51, **fig. 88.** Lawson, Ranunc. Canad. 51.

ISOPYRUM biternatum. Torr. & Gray, Fl. 1. 660. Walp. Rep. 1. 48. Torrey, Nicol Rep. 144. Gray, Genera, 1. 36, **t. 12**; Manual, 44. Parry, Pl. Minn. 609. Chapman, 9. Baillon, Hist. Pl. 1. 21, **fig. 36.** Young, Fl. Tex. 145.

Enemion biternatum. Raf. in "Jour. Phys. 2. 70." DC. Prodr. 1. 48. Don, Mill. 1. 47. Torr. & Gray, Fl. 1. 29. Dietr. Syn. 3. 338. Regel, Fl. Ost-Sib. 1. 62.

I. thalictroides. Short, Cat. Pl. Kentucky, 1. 8. Hook. Jour. Bot. 1. 187.

I. Hallii. Gray, Proc. Am. Acad. 8. 374.

I. occidentale. Hook. & Arn. Bot. Beechey, 316. Torr. & Gray, Fl. 1. 660.

MYOSURUS aristatus. Benth. Lond. Jour. Bot. 6. 458. Walp. Ann. 1. 7. Gray, Ives's Rep. 5. Watson, King's Rep. 5. 5. Coulter, Hayd. Rep. 1872, 758.

M. apetalus. Gay, Hist. Chil. Bot. 1. 31, **t. 1, fig. 1.** Baillon, Hist. Pl. 1. 43.

M. minimus Linn. Spec. 284. See syn. in DC. Syst. 1. 230; Ledeb. Fl. Ross. 1. 26. — Elliott, 1. 582. Torr. & Gray, Fl. 1. 25; Pac. R. Rep. 2. 159. Hook. in Jour. Bot. 1. 187; Lond. Jour. Bot. 6. 459. Benth. Pl. Hartw. 295. Gray, Genera, 1. 28, **t. 8**; Pl. Wright. 2. 8; Proc. Acad. Philad. 1863, 57; Manual, 44. Torrey, Mex. Bound. 29; Bot. Wilkes, 215. Chapman, 6. Baillon, Hist. Pl. 1. 41, **fig. 71–75.** Lawson, Ranunc. Canad. 43. Boland. Cat. 3. Anderson, Cat. Pl. Nev. 117. Watson, King's Rep. 5. 5. Porter, Fl. Col. 2.

M. Shortii. Raf. in Am. Jour. Sci. 1. 379 (Spreng. Neue Entdeck. 2. 208). DC. Prodr. 1. 25. Don, Mill. 1. 25.

PÆONIA Brownii. Dougl.; Hook. Fl. Bor.-Am. 1. 27. Don, Mill. 1. 66. Torr. & Gray, Fl. 1. 41 & 661. Lindl. Bot. Reg. 25, **t. 30.** Walp. Rep. 1. 61. Dietr. Syn. 3. 275. Benth. Pl. Hartw. 296. Torrey, Pac. R. Rep. 4. 63 & 7. 7; Mex. Bound. 30; Bot. Wilkes, 217. Newberry, Pac. R. Rep. 6. 66. Kellogg, Proc. Calif. Acad. 1. 46. Anderson, Cat. Pl. Nev. 117. Watson, King's Rep. 5. 12. Coulter, Hayd. Rep. 1872, 759. Brew. & Wats. Bot. Calif. 1. 13.

P. Californica. Nutt. in Torr. & Gray, Fl. 1. 41. Walp. Rep. 1. 61. Dietr. Syn. 3. 275. Kellogg, Proc. Calif. Acad. 1. 46.

RANUNCULUS abortivus. Linn. Spec. 551. Hill, Veg. Syst. 13. 2, **t. 2, fig. 4.** Walt. Fl. Car. 159. Willd. Spec. 2. 1314. Poir. Dict. 6. 109. Pursh, 392. Smith, Rees Cyc. n. 23. DC. Syst. 1. 268; Prodr. 1. 34. Schlecht. Animad. 2. 10. Elliott, 2. 58. Hook. Fl. Bor.-Am. 1. 14, in part; Jour. Bot. 1. 187. Don, Mill. 1. 32. Torr. & Gray, Fl. 1. 19. Dietr. Syn. 3. 317. Torrey, Fl. N. Y. 1. 13; Nicol. Rep. 144. Parry, Pl. Minn. 608. Gray, Pac. R. Rep. 12. 40; Manual, 42. Chapman, 7. Pl. Bourgeau, 254. Lawson, Ranunc. Canad. 37.

? *R. nitidus.* Walt. Fl. Car. 159, not Muhl. or Elliott. Poir. Dict. 6. 126. Pursh, 392.

Var. **micranthus.** Gray, Manual, 42. Macoun & Gibson, Trans. Edinb. 12. 308.

R. micranthus. Nutt. in Torr. & Gray, Fl. 1. 18. Walp. Rep. 1. 42. Dietr. Syn. 3. 318. Engelm. in Am. Journ. Sci. 46. 94.

R. ACRIS, Linn. Generally regarded as introduced, but classed by Hook. f. as indigenous. Hook. Fl. Bor.-Am. 1. 18; Lond. Jour. Bot. 6. 66. Torr. & Gray, Fl. 1. 21, excl. var. Ledeb. Fl. Ross. 1. 40. Vahl, Fl. Dan. 14, **t. 2415.** Torrey, Emory's Rep. 406. Hook. f., Arct. Pl. 283. Gray, Manual, 43. Lange, Pl. Grönl. 128. Lawson, Ranunc. Canad. 36. Boland. Cat. 3.

R. adoneus. Gray, Proc. Acad. Philad. 1863, 56. Coulter, Hayd. Rep. 1872, 759. Porter, Fl. Col. 3.

R. amœnus ? Gray, Am. Jour. Sci. 2. 33. 408.

R. orthorhynchus, var. *alpinus.* Watson, King's Rep. 5. 9. Gray, Am. Jour. Sci. 3. 3. 349; Proc. Am. Acad. 8. 373.

R. affinis. R. Br. in Parry's 1st Voy. Appx. 265 (Beil. zu Flora, 7². 70). Richards. in Frankl. Journ. 2 ed. 23. Hook. in Parry's 2d Voy. 384; Fl. Bor.-Am. 1.

12, **t. 6, fig. A.** Seringe, Melange Bot. 2. 57. Grah. in Edinb. Jour. 1829, 187. Don, Mill. 1. 35. Schlecht. in Linn. 6. 577. Torr. & Gray, Fl. 1. 18. Hook. & Arn. Bot. Beechey, 121. Ledeb. Fl. Ross. 1. 37. Dietr. Syn. 3. 320. Gray, Pl. Fendl. 4; Pl. Wright. 2. 8; Am. Jour. Sci. 2. 33.241 & 404. Seem. Bot. Herald, 22. Torrey, Pac. R. Rep. 4. 62; Mex. Bound. 29. Hook. f. in Jour. Linn. Soc. 1. 120; Arct. Pl. 312 (referring it "to *R. auricomus* without hesitation"). Watson, King's Rep. 5. 7. Porter, Hayd. Rep. 1870, 47. Coulter, same, 1872, 759.

R. pedatifidus. Schlecht. Animad. 2. 18, not Sm. or Ledeb.

R. arcticus. Richards. in Frankl. Journ. 13. Don, Mill. 1. 34. Thus referred by Hook. f., l. c.; kept distinct by Malmgren, Fl. Spitz. in Seem. Jour. Bot. 2. 136.

R. amœnus. Ledeb. Fl. Alt. 320; Icon. Fl. Alt. **t. 113.** The Siberian form, referred here by Ledeb. (Fl. Ross. 1. 37) and others. Hook. f. & Thomp. (Fl. Ind. 1. 34) identify the next with it.

R. pedatifidus. Smith, Rees Cyc. n. 32. DC. Syst. 1. 275; Prodr. 1. 36. (Not of Ledeb. Fl. Ross. 1. 732, which Hook. f. & Thomp. l. c. refer to *R. cæspitosus*, Wall., as a distinct species common to Asia and North America.)

R. auricomus, var. *affinis.* Lawson, Ranunc. Canad. 37.

Var. **cardiophyllus.** Gray, Proc. Acad. Philad. 1863, 56. Porter, Fl. Col. 3.

R. cardiophyllus. Hook. Fl. Bor.-Am. 1. 14, **t. 5**; Bot. Mag. **t. 2999.** Don, Mill. 1. 33. Nutt. in Jour. Acad. Philad. 7. 8. Torr. & Gray, Fl. 1. 18. Walp. Rep. 1. 42. Dietr. Syn. 3. 317. Pl. Bourgeau, 254.

Var. **leiocarpus.** Trautv. in Middend. Sibir. Reise, 62. Regel, Fl. Ost-Sib. 1. 46. Gray, Proc. Acad. Philad. 1863, 56. Watson, King's Rep. 5. 8. Porter, Fl. Col. 3.

R. Eschscholtzii. Gray, Am. Jour. Sci. 2. 33. 241, in part.

Var. **lasiocarpus.** Torrey, Bot. Wilkes, 213.

R. alismæfolius. Geyer; Benth. Pl. Hartw. 295, excl. syn. Gray, Proc. Am. Acad. 8. 372. Brew. & Wats. Bot. Calif. 1. 16.

R. alismæfolius, var. Cooper, Pac. R. Rep. 12. 51. Gray, Am. Journ. Sci. 2. 33. 404; Proc. Acad. Philad. 1863, 57.

R. glaberrimus, var. Gray, Am. Journ. Sci. 2. 33. 241.

R. alismæfolius, var. *montanus.* Watson, King's Rep. 5. 7. Gray, Am. Journ. Sci. 3. 3. 149. Porter, Fl. Col. 2.

R. ambigens.

R. Flammula. Pursh, 391; not DC. Richards. in Frankl. Journ. 13. Hook. Fl. Bor.-Am. 1. 11, in part. Torr. & Gray, Fl. 1. 16. Torrey, Fl. N. Y. 1. 11. Gray, Manual, 1 ed. 8. Lawson, Ranunc. Canad. 40. Wood, Bot. & Fl. 19.

R. Lingua. Pursh, 391. Torrey, Compend. 225. Don, Mill. 1. 31, in part.

? *R. Robini.* Raf. Fl. Lud. 82. Seringe, Melange Bot. 70.

R. alismæfolius. Benth. l. c., in part. Gray, Manual, 41 (2 ed. 8). Chapman, 7.

R. Andersoni. Gray, Proc. Am. Acad. 7. 327. Anderson, Cat. Fl. Nev. 117. Watson, King's Rep. 5. 6, **t. 1.** Brew. & Wats. Bot. Calif. 1. 6.

R. aquatilis, Linn. See syn. in DC. Syst. 1. 234 & Prodr. 1. 26; Schlecht. Animad. 1. 7 & 2. 5; Ledeb. Fl. Ross. 1. 27; Babington, Ann. & Mag. Nat. Hist. 1. 3. 227 & 2. 16. 385; Robinson, Trans. Bot. Soc. Edinb. 11. 121; Du Mortier, Bull. Bot. Soc. Belg. 2. 207, under *Batrachium*; Hiern, Seem. Journ. Bot. 9. 65, under *R. hydrocharis.* — Pursh, 395. Hook. Fl. Bor.-Am. 1. 10. Schlecht. in Linn. 6. 576. Torr. & Gray, Fl. 1. 15. Torrey, Fl. N. Y. 1. 11; Emory's Rep. 136 & 406; Pac. R. Rep. 4. 62; Bot. Wilkes, 213. Ascherson, Fl. Lab. in Flora, 43. 369. Parry, Pl. Minn.

608. Newberry, Pac. R. Rep. 6. 65. Hook. f., Arct. Pl. 283 & 311. Chapman, 7. Pl. Bourgeau, 254. Lawson, Ranunc. Canad. 42. Boland. Cat. 3.

Var. **arcticus.** Durand, Pl. Kane, 185.

Var. **cæspitosus.** DC. Prodr. 1. 26. Hook. Fl. Bor.-Am. 1. 10; Lond. Jour. Bot. 6. 66. Torr. & Gray, Fl. 1. 16. Brew. & Wats. Bot. Calif. 1. 5.

R. hydrocharis cæspitosus. Hiern, l. c. 100.

Var. **heterophyllus.** DC. Prodr. 1. 26. Hook. Fl. Bor.-Am. 1. 10. Cooper, Pac. R. Rep. 12. 55. Gray, Manual, 40. Wood, Bot. & Fl. 19.

R. heterophyllus, Weber. Gray, Proc. Am. Acad. 8. 372.

Var. **Lobbii.**

R. hederaceus. Schlecht. Animad. Ranunc. 1. 7. Torrey, Pac. R. Rep. 4. 62.

R. hydrocharis Lobbii. Hiern, l. c. 66, **t. 114.**

Var. **stagnatilis.** DC. Prodr. 1. 27. Hook. Fl. Bor.-Am. 1. 10. Torr. & Gray, Fl. 1. 16. Watson, King's Rep. 5. 6. Porter, Hayd. Rep. 1871, 477; Fl. Col. 2. Coulter, Hayd. Rep. 759.

R. aquatilis, var. *divaricatus.* Gray, Manual, 2 ed. 7. Torrey, Mex. Bound. 29.

R. divaricatus. Gray, Pl. Wright. 2. 8; Pac. R. Rep. 12. 40; Manual, 40. Torr. & Gray, Pac. R. Rep. 2. 125. Torrey, Pac. R. Rep. 4. 62. Porter, Hayd. Rep. 1870, 472.

R. hydrocharis longirostris. Hiern, l. c. 100.

Var. **trichophyllus.** Gray, Manual, 40. Watson, King's Rep. 5. 5. Porter, Hayd. Rep. 1871, 477; Fl. Col. 2. Coulter, Hayd. Rep. 1872, 759.

R. fluviatilis. Pursh, 395. James, Long's Exp. 1. 63. Bigel. Fl. Bost. 2 ed. 227.

R. aquatilis, var. *capillaceus.* DC. Prodr. 1. 26. Torrey, Compend. 225; Nicol. Rep. 144. Schlecht. in Linn. 6. 576. Hook. Fl. Bor.-Am. 1. 10. Darling. Fl. Cestr. 327. Torr. & Gray, Fl. 1. 10.

R. pantothrix. Elliott, 2. 56.

R. aquatilis, var. *brachypus.* Hook. & Arn. Bot. Beechey, 316. Torr. & Gray, Fl. 1. 658.

R. aquatilis, var. *pantothrix.* Ledeb. Fl. Ross. 1. 27. Hook. f., Arct. Pl. 311.

R. hydrocharis trichophyllus. Hiern, l. c. 101.

Var. **confervoides.**

Batrachium confervoides, Fries. Lange, Pl. Grönl. 128.

R. hydrocharis confervoides. Hiern, l. c. 102.

Besides these, the following American forms are given by Hiern:

R. hydrocharis hederæfolius, l. c. 67.

Drouetii, l. c. 102. (Oregon.)

submersus, l. c. 102. (Boston.)

R. auricomus, Linn. See syn. in DC. Syst. 1. 266; Schlecht. Animad. 2. 7; Ledeb. Fl. Ross. 1. 38; Regel & Til. Fl. Ajan. 31; Regel, Fl. Ost-Sib. 1. 47; Trautvetter in Trud. St. Pet. Bot. Cada, 1. 49. — Pursh, 393. DC. Prodr. 1. 33. Hook. in Trans. Linn. Soc. 14. 361. Torr. & Gray, Fl. 1. 17. Hook. f., Arct. Pl. 283 & 312.

Var. **affinis.** Lawson, Ranunc. Canad. 37.

R. affinis, R. Br.; q. v.

R. Cassubicus, Linn. Schrank, Fl. Lab. 28. Schlecht. Animad. 2. 7. Ledeb. Fl. Ross. 1. 38. Dietr. Syn. 3. 317.

R. auricomus, var. *Cassubicus,* Hagen. Meyer, Pl. Lab. 96.

R. BULBOSUS, Linn. Michx. Fl. 1. 321. Pursh, 392. Bigel. Med. Fl. 3. 61, **t. 47.** Torr. & Gray, Fl. 1. 24. Chapman, 8. Gray, Manual, 43.

R. Californicus. Benth. Pl. Hartw. 295. Torrey, Pac. R. Rep. 4. 62 & 7. 7; Mex. Bound. 30. Newberry, Pac. R. Rep. 6. 65. Boland. Cat. 3. Gray, Proc. Am. Acad. 8. 372. Brew. & Wats. Bot. Calif. 1. 7.

R. dissectus. Hook. & Arn Bot. Beechey, 316, not Bieb. Walp. Rep. 1. 43. Peyritsh in Linn. 30. 52.

R. acris, var. *β.* Torr. & Gray, Fl. 1. 21.

R. delphinifolius ? Torr. & Gray, Fl. 1. 659, not HBK.

R. canus. Torrey, Pac. R. Rep. 4. 62, not Benth.

R fascicularis. Watson, King's Rep. 5. 9 ?

R. Cymbalaria. Pursh, 392. Smith, Rees Cycl. n. 14. Poir. Suppl. 4. 661. DC. Syst. 1. 252; Prodr. 1. 33. Schlecht. Animad. 1. 22. Richards. in Frankl. Journ. 13. Spreng. Syst. 2. 649. Hook. Fl. Bor.-Am. 1. 11; Lond. Jour. Bot. 6. 60. Don, Mill. 1. 32. Torr. & Gray, Fl. 1. 17. Hornem. Fl. Dan. 13, **t. 2293.** Ledeb. Fl. Ross. 1. 34. Turcz. Cat. Baic. n. 34. Dietr. Syn. 3. 316. Torrey, Fl. N. Y. 1. 12; Nicol. Rep. 144; Frem. Rep. 87; Mex. Bound. 29. Gray, Pl. Wright. 2. 8; Am. Jour. Sci. 2. 33. 241; Proc. Acad. Philad. 1863, 56; Manual, 41; Proc. Am. Acad. 8. 372. Walp. Ann. 4. 18. Parry, Pl. Minn. 608. Lange, Pl. Grönl. 129. Hook. f., Arct. Pl. 283. Pl. Bourgeau, 254. Lawson, Ranunc. Canad. 40. Anderson, Cat. Pl. Nev. 117. Watson, King's Rep. 5. 7. Porter, Hayd. Rep. 1870, 472; 1871, 477; Fl. Col. 3. Coulter, Hayd. Rep. 1872, 759.

R. tridentatus. HBK. Nov. Gen. & Spec. 5. 42. DC. Syst. 1. 252; Prodr. 1. 33. Seringe, "Bull. Bot. 2. 25, **t. 3.**" Spreng. Syst. 2. 649. Don, Mill. 1. 32. Benth. Pl. Hartw. 1 & 158. Dietr. Syn. 3. 317. Gray, Pl. Fendl. 4.

R. sarmentosus. Adams, Mem. Soc. Mosc. 9. 244.

R. salsuginosus. Pallas, "Itin. 2. 213 & 265." Willd. Spec. 2. 1311. Smith, Rees Cycl. n. 15. Poir. Dict. 6. 102. Spreng. Syst. 2. 649.

Var. **alpinus.** Hook. Fl. Bor.-Am. 1. 11.

R. halophilus. Schlecht. Animad. 1. 23, **t. 4, fig. 1.** Seringe, Melange Bot. 2. 57. Spreng. Syst. 2. 649. Don, Mill. 1. 32.

R. digitatus. Hook. Jour. Bot. 1851, 124, **t. 4.** Walp. Ann. 4. 17. Lawson, Ranunc. Canad. 43. Watson, King's Rep. 5. 8.

R. fascicularis. Muhl.; Bigel. Fl. Bost. 137. DC. Syst. 1. 291; Prodr. 1. 40. Spreng. Syst. 2. 655. Hook. Fl. Bor.-Am. 1. 20, **t. 8, fig. 1;** Jour. Bot. 1. 187. Don, Mill. 1. 38. Darling. Fl. Cestr. 329. Torr. & Gray, Fl. 1. 24. Dietr. Syn. 3. 324. Torrey, Fl. N. Y. 1. 15. Gray, Genera, 1. 30, **t. 9;** Manual, 43; Am. Jour. Sci. 3. 3. 149; Proc. Am. Acad. 8. 373. Parry, Pl. Minn. 608. Lawson, Ranunc. Canad. 34.

R. Ficaria, Linn. Included in Hook. f. Arct. Pl. as from northwestern America, but no other authority is found.

R. Flammula, Linn. See syn. in DC. Syst. 1. 247; Ledeb. Fl. Ross. 1. 32. — Hook. in Lond. Jour. Bot. 6. 66. Hook. f., Arct. Pl. 283 & 312. Torrey, Bot. Wilkes, 213. Gray, Proc. Am. Acad. 8. 373.

Var. **intermedius.** Hook. Fl. Bor.-Am. 1. 11. Ledeb. Fl. Ross. 1. 32. Gray, Manual, 41; Proc. Am. Acad. 8. 373.

R. Flammula. Schlecht. in Linn. 6. 577.

Var. **Unalaschcensis.** Ledeb. Fl. Ross. 1. 32.

Var. **reptans.** Meyer, Pl. Lab. 96. Gray, Proc. Acad. Philad. 1863, 56; Manual,

41. Watson, King's Rep. 5. 7. Porter, Hayd. Rep. 1871, 477; Fl. Col. 2. Coulter, Hayd. Rep. 1872, 759. Brew. & Wats. Bot. Calif. 1. 6.

R. reptans. Linn. Spec. 549. See syn. in DC. Syst. 1. 248; Ledeb. Fl. Ross. 1. 32. — Schlecht. Animad. 1. 18. Don, Mill. 1. 31. Torr. & Gray, Fl. 1. 16. Hook. in Lond. Jour. Bot. 6. 66. Gray, Manual, 1 ed. 9. Cooper, Pac. R. Rep. 12. 55. Lange, Pl. Grönl. 129. Pl. Bourgeau, 254. Lawson, Ranunc. Canad. 40. Boland. Cat. 3. Wood, Bot. & Fl. 19.

R. filiformis. Michx. Fl. 1. 320. Poir. Dict. 6. 99. Persoon, 2. 102. Pursh, 302. Smith, Rees Cyc. n. 5. Barton, Fl. N. A. 2. 101, **t. 70.** Bigel. Fl. Bost. 2 ed. 224.

R. Flammula, var. *filiformis.* Hook. Fl. Bor.-Am. 1. 11. Regel, Fl. Ussur. 6.

R. reptans, var. *filiformis.* DC. Syst. 1. 248. Torrey, Fl. N. Y. 1. 12.

R. glaberrimus. Hook. Fl. Bor.-Am. 1. 12, **t. 5, fig. A.** Don, Mill. 1. 33. Nuttall, Jour. Acad. Philad. 7. 7. Torr. & Gray, Fl. 1. 19 & 658. Hook. & Arn. Bot. Beechey, 316. Walp. Rep. 1. 42. Dietr. Syn. 3. 317. Anderson, Cat. Pl. Nev. 117. Watson, King's Rep. 5. 8. Porter, Fl. Col. 2. Torrey, Bot. Wilkes, 214. Brew. & Wats. Bot. Calif. 1. 7.

R. glacialis, Linn. See syn. in DC. Syst. 1. 238. — Schlecht. Animad. 1. 12. Torr. & Gray, Fl. 1. 16 & 658. Hook. in Trans. Linn. Soc. 14. 362. Hook. f. Arct. Pl. 283 & 311. Durand, Pl. Kane, 185.

R. Chamissonis. Schlecht. Animad. 1. 12, **t. 1** (Spreng. Neue Entdeck. 2. 313). Seringe, Melange Bot. 2. 52. Spreng. Syst. 2. 650. Gray, Proc. Am. Acad. 7. 328.

R. hebecarpus. Hook. & Arn. Bot. Beechey, 316. Walp. Rep. 1. 43. Torrey, Pac. R. Rep. 4. 62; Mex. Bound. 30. Boland. Cat. 3.

R. parviflorus, var. γ. Torr. & Gray, Fl. 1. 25 & 659.

R. Hookeri. Regel, Fl. Ost-Sib. 1. 47.

R. pedatifidus. Hook. Fl. Bor.-Am. 1. 18, **t. 18, fig. B.** Don, Mill. 1. 35. Torr. & Gray, Fl. 1. 21. Dietr. Syn. 3. 321.

R. hydrocharoides. Gray, Pl. Thurb. 306. Walp. Ann. 4. 17. Torrey, Mex. Bound. 29.

R. Hornemanni. Schlecht. Animad. 2. 36. DC. Prodr. 1. 44. Don, Mill. 1. 41. Torr. & Gray, Fl. 1. 35. Dietr. Syn. 3. 327.

R. tuberosus. Hornem. Hort. Bot. Hafn. 527.

R. hyperboreus. Rottb. Act. Hafn. 10. 458, **t. 4, fig. 16.** See syn. in DC. Syst. 1. 272; Ledeb. Fl. Ross. 1. 34; Regel, Fl. Ost-Sib. 1. 43. — DC. Prodr. 1. 35. Schlecht. Animad. 2. 12. R. Br. in Parry's 1st Voy. Appx. 263. Hook. in Parry's 2d Voy. Appx. 4, & 3d Voy. Appx. 29; Fl. Bor.-Am. 1. 16. Spreng. Syst. 2. 650. Schlecht. in Linn. 6. 578. Torr. & Gray, Fl. 1. 20. Walp. Ann. 4. 19. Seem. Bot. Herald, 23. Lange, Pl. Grönl. 129. Hook. f., Jour. Linn. Soc. 1. 124 & 5. 82; Arct. Pl. 283 & 312. Dickie, Jour. Linn. Soc. 3. 110. Rothr. Fl. Alaska, 442.

Var. **natans.** Regel, l. c. Gray, Proc. Acad. Philad. 1863, 56. Porter, Fl. Col. 3.

R. natans. C. A. Meyer, in Ledeb. Fl. Alt. 2. 315 & Ic. Fl. Alt. **t. 114.** Referred to *R. radicans* by Schlecht. l. c. and by Hook. f. & Thomp., Fl. Ind.. 32.

R. hystriculus. Gray, Proc. Am. Acad. 7. 328.

R. Lapponicus, Linn. See syn. in DC. Syst. 1. 271. — Schlecht. Animad. 2. 11; Linn. 6. 578. Richards. in Frankl. Journ. 14. Hook. in Parry's 3d Voy. Appx. 121; Fl. Bor.-Am. 1. 16. Hook. & Arn. Bot. Beechey, 121. Hornem. Fl. Dan. 13,

t. 2292. Ledeb. Fl. Ross. 1. 36. Seem. Bot. Herald, 23. Lange, Pl. Grönl. 129. Aschers. Fl. Lab. in Flora, 43. 369. Rothr. Fl. Alaska, 442.

R. macranthus. Scheele in Linn. 21. 585. Torrey, Mex. Bound. 29. Watson, King's Rep. 5. 9. Coulter, Hayd. Rep. 1872, 759.

R. repens, var. *macranthus*. Gray, Pl. Lindh. 141; Pl. Wright. 1. 7, & 2. 8.

R. multifidus. Pursh, 736. Poir. Suppl. 4. 665. Bradbury, Cat. 337. DC. Syst. 1. 270; Prodr. 1. 34. Spreng. Syst. 2. 652. Bigel. Fl. Bost. 2 ed. 228. Torrey, Compend. 227. Seringe, Melange Bot. 2. 58. Gray, Manual, 40. Lawson, Ranunc. Canad. 41. Watson, King's Rep. 5. 8. Porter, Hayd. Rep. 1871, 477; Fl. Col. 3.

R. fluviatilis. Bigel. Fl. Bost. 139, not Willd.

R. lacustris. Beck & Tracy, "N. Y. Med. & Phys. Journ. 2. 112." Eaton, Manual, 4 ed. 424; Trans. Alb. Instit. 1. 148, **t. 5.** Paine, Pl. Oneida, 182.

R. Purshii. Torrey, Ann. Lyc. N. Y. 2. 163; Fl. N. Y. 1. 14. Hook. Fl. Bor.-Am. 1. 15, **t. 7, B. f. 1.** Don, Mill. 1. 33. Schlecht. in Linn. 6. 578. Torr. & Gray, Fl. 1. 19. Hook. & Arn. Bot. Beechey, 121. Ledeb. Fl. Ross. 1. 35. Turcz. in Fl. Baic. 1. 54. Dietr. Syn. 3. 318. Seem. Bot. Herald, 22. Newberry, Pac. R. Rep. 6. 65. Parry, Pl. Minn. 608. Hook. f. in Jour. Linn. Soc. 1. 124; Arct. Pl. 283. Lesqx. Fl. Ark. 346. Chapman, 8. Pl. Bourgeau, 254. Rothr. Fl. Alask. 442.

R. delphinifolius. Torrey in Eaton's Manual, 4 ed. 424.

R. amphibius. James, Cat. 183; Long's Exped. 2. 342?

R. Beckii. Don, Mill. 1. 39.

R. radicans, var. *γ. multifidus.* Regel, Fl. Ost-Sib. 1. 45, with syn.

Var. *β.*

R. Purshii. Richards. Frankl. Journ. 13.

R. Purshii, var. *γ.* Hook. Fl. Bor.-Am. 1. 15, **t. 7, B. f. 2.** Torr. & Gray, Fl. 1. 20. Watson, King's Rep. 5. 8.

R. limosus. Nutt. in Torr. & Gray, Fl. 1. 20. Walp. Rep. 1. 42. Dietr. Syn. 3. 318.

R. radicans, var. *β. repens.* Regel, l. c., with syn.

Var. *γ.* **repens.** Watson, King's Rep. 5. 8. Porter, Hayd. Rep. 1871, 477; Fl. Col. 3.

R. Purshii, var. *β.* Richards. l. c.

R. Purshii, var. *δ. repens.* Hook. l. c. Torr. & Gray, l. c. Gray, Proc. Acad. Philad. 1863, 56.

R. Gmelini & *Langsdorffii.* DC. Prodr. 1. 34.

R. radicans. C. A. Mey. in Ledeb. Fl. Alt. 2. 316. Ledeb. Icon. **t. 116**; Fl. Ross. 1. 34, with syn. Regel, Fl. Ost-Sib. 1. 44, making this the typical form.

R. MURICATUS, Linn. Michx. Fl. 1. 321. Pursh, 395. Elliott, 2. 64. Hook. Jour. Bot. 1. 187. Torr. & Gray, Fl. 1. 24. Chapman, 7. Gray, Manual, 43. Boland. Cat. 3.

R. muricatus, var. *Carolinus.* DC. Prodr. 1. 42.

R. Nelsoni. Gray, Proc. Am. Acad. 8. 373. Coulter, Hayd. Rep. 1872, 759.

R. recurvatus. Bong. Veg. Sitch. 123, not Poir.

R. recurvatus, var. *Nelsoni.* DC. Syst. 1. 290; Prodr. 1. 40. Hook. Fl. Bor.-Am. 1. 20. Torr. & Gray, Fl. 1. 23. Ledeb. Fl. Ross. 1. 44

R. occidentalis. Torr. & Gray, Fl. 1. 22, in part.

R. occidentalis, var. *parviflorus.* Torrey, Bot. Wilkes, 214.

Var. **tenellus.** Gray, Proc. Am. Acad. 8. 374.

R. tenellus. Nutt. in Torr. & Gray, Fl. 1. 23. Walp. Rep. 1. 43. Dietr. Syn. 3.

323. Hook. in Lond. Jour. Bot. 6. 67. Cooper, Pac. R. Rep. 12. 55. Torrey, Bot. Wilkes, 214.

R. nivalis, Linn. See syn. in DC. Syst. 1. 273; Hook. Fl. Bor.-Am. 1. 17; Regel, Fl. Ost-Sib. 1. 39; Trautv. in Trud. Petr. Bot. Cada, 1. 48. — Schlecht. Animad. Ranunc. 2. 14; Linn. 6. 578. Hornem. Fl. Dan. 10, t. **1699.** R. Br. in Parry's 1st Voy. Appx. 264 (Flora, 7², Beilage 68). Greville, Mem. Soc. Wern. 3. 430. Richards. in Frankl. Journ. 2 ed. 24. Hook. in Trans. Linn. Soc. 14. 361; Fl. Bor.-Am. 1. 17. Torr. & Gray, Fl. 1. 20. Hook. & Arn. Bot. Beechey, 121. Ledeb. Fl. Ross. 1. 36. Seem. Bot. Herald, 23. Durand, Pl. Kane, 185. Lange, Pl. Grönl. 129. Hook. f. in Jour. Linn. Soc. 1. 116 & 120; Arct. Pl. 283 & 312. Dickie, Jour. Linn. Soc. 3. 110 & 11. 33. Gray, Am. Jour. Sci. 2. 33. 404. Rothr. Fl. Alask. 442. Lawson, Ranunc. Canad. 39. Watson, King's Rep. 5. 8.

R. frigidus. Willd. Spec. 2. 1312. Schlecht. Animad. Ranunc. 2. 15. DC. Prodr. 1. 35. Hook. Fl. Bor.-Am. 1. 18. Seem. Bot. Herald, 54. Regel, Fl. Ost-Sib. 1. 46, referring to it *R. nivalis* and other species.

R. altaicus, Laxm. Ledeb. Fl. Ross. 1. 37, with syn.

Var. **sulphureus,** Wahl. See DC. Prodr.; Hook. Fl. Bor.-Am.; Ledeb. Fl. Ross.; Trautv. l. c. — Durand, Pl. Kane, 185.

R. sulphureus. Solander, Phipp's Voy. 202. DC. Syst. 1. 274. Richards. in Frankl. Journ. 14. Kept distinct by Malmgren in Seem. Jour. Bot. 2. 135.

Var. **Eschscholtzii.** Watson, King's Rep. 5. 8. Porter, Hayd. Rep. 1871, 477; Fl. Col. 3. Coulter, Hayd. Rep. 1872, 759.

R. Eschscholtzii. Schlecht. Animad. Ranunc. 2. 16, t. **1** (Spreng. Neue Entdeck. 2. 315); Linn. 6. 578. DC. Prodr. 1. 35. Spreng. Syst. 2. 651. Hook. Fl. Bor.-Am. 1. 18. Don, Mill. 1. 34. Torr. & Gray, Fl. 1. 21. Dietr. Syn. 3. 319. Seem. Bot. Herald, 23. Gray, Am. Jour. Sci. 2. 33. 241 & 404; Proc. Acad. Philad. 1863, 56. Pl. Bourgeau, 254. Rothr. Fl. Alask. 442.

R. Nuttallii. Gray, Proc. Acad. Philad. 1863, 56. Porter, Fl. Col. 3.

Cyrtorhyncha ranunculina. Nutt.; Torr. & Gray, Fl. 1. 26. Dietr. Syn. 3. 343.

R. oblongifolius. Elliott, 2. 58. Seringe, Melange Bot. 2. 69. Torrey, Pac. R. Rep. 4. 62. Gray, Manual, 41; Hall's Pl. Tex. 3. Young, Fl. Tex. 144.

R. Flammula. Michx. Fl. 1. 321.

R. pusillus, var. δ. Torr. & Gray, Fl. 1. 17. Chapman, 7.

R. Texensis. Engelm. Pl. Lindh. 2. Walp. Ann. 2. 10. Wood, Cl.-Book, 206. Young, Fl. Tex. 144.

R. occidentalis. Nutt. in Torr. & Gray, Fl. 1. 22, excl. syn. Walp. Rep. 1. 43. Dietr. Syn. 3. 323. Newberry, Pac. R. Rep. 6. 65. Cooper, Pac. R. Rep. 12. 55. Rothr. Fl. Alask. 442. Gray, Proc. Am. Acad. 8. 374.

R. hispidus. Hook. Fl. Bor.-Am. 1. 19, in part.

Var. **canus.** Gray, Proc. Am. Acad. 8. 374.

R. canus. Benth. Pl. Hartw. 294. Walp. Ann. 2. 7. Gray, Pl. Lindh. 142.

R. orthorhynchus. Hook. Fl. Bor.-Am. 1. 21, t. **9.** Cham. in Linn. 6. 579. Don, Mill. 1. 39. Torr. & Gray, Fl. 1. 24. Dietr. Syn. 3. 325. Cooper, Pac. R. Rep. 12. 55. Watson, King's Rep. 5. 9, excl. var. Gray, Proc. Am. Acad. 8. 373. Torrey, Bot. Wilkes, 214.

? *R. dichotomus.* Moc. & Sess. in DC. Syst. 1. 283; Prodr. 1. 39. Cham. & Schlecht. in Linn. 5. 210. Schlecht. in Linn. 6. 579 & 10. 233.

R. ornithorhynchus. Walp. Rep. 1. 43. Peyritsch in Linn. 30. 52.

R. palmatus. Elliott, 2. 60. Seringe, Melange Bot. 2. 63. Torr. & Gray, Fl. 1. 658. Chapman, 8.

R. Carolinianus. Torr. & Gray, Fl. 1. 23, excl. syn.; not DC.

R. Pallasii. Schlecht. Animad. Ranunc. 1. 15, **t. 2** (Spreng. Neue Entdeck. 2. 314); Linn. 6. 577. Spreng. Syst. 2. 649. Seringe, Melange Bot. 2. 53. Hook. Fl. Bor.-Am. 1. 10. Don, Mill. 1. 32. Torr. & Gray, Fl. 1. 17. Ledeb. Fl. Ross. 1. 31. Dietr. Syn. 3. 317. Seem. Bot. Herald, 22. Ascherson, Fl. Lab. in Flora, 43. 369. Hook. f. Arct. Pl. 283. Rothr. Fl. Alask. 442.

R. PARVIFLORUS, Linn. Torr. & Gray, Fl. 1. 25 & 659, in part. Chapman, 7. Gray, Manual, 43; Hall's Pl. Tex. 3. Grisebach, Fl. Br. W. Ind. 2.

R. trachyspermus. Elliott, 2. 65; not Engelm. Seringe, Melange Bot. 2. 67. Hook. Jour. Bot. 1. 187.

R. Pennsylvanicus. Linn. f., Suppl. 272. Willd. Spec. 2. 1328. Poir. Dict. 6. 120. Barton, Comp. Fl. Phil. 2. 25. Smith in Rees Cyc. n. 46. DC. Syst. 1. 290; Prodr. 1. 40. Richards. in Frankl. Journ. 13. Elliott, 2. 63. Seringe, Melange Bot. 2. 64. Hook. Fl. Bor.-Am. 1. 19; Lond. Jour. Bot. 6. 67. Torr. & Gray, Fl. 1. 22. Dietr. Syn. 3. 323. Torrey, Fl. N. Y. 1. 15; Bot. Wilkes, 214. Chapman, 8. Hook. f. Arct. Pl. 283. Gray, Manual, 42. Lawson, Ranunc. Canad. 35. Porter, Hayd. Rep. 1870, 472.

R. Canadensis. Jacq. Misc. 2. 343; Icon. Rar. 1. 11, **t. 105.**

R. trifolius. Moench, Suppl. 70. Barton, Prodr. Fl. Phil. 60.

R. hispidus. Pursh, 395.

R. hirsutus. Curtis in Eaton's Manual, 4 ed. 424?

R. pusillus. Poir. Dict. 6. 99. Pursh, 392. Smith, Rees Cyc. n. 6. DC. Syst. 1. 249; Prodr. 1. 32. Deless. Icon. 1. 7, **t. 28.** Elliott, 2. 57. Spreng. Syst. 2. 648. Don, Mill. 1. 31. Torr. & Gray, Fl. 1. 17, in part. Nees, Pl. Wied, 3. Torrey, Fl. N. Y. 1. 12. Chapman, 7, in part. Gray, Manual, 41. Lawson, Ranunc. Canad. 41.

R. Flammula. Walt. Fl. Car. 159.

R. humilis. Persoon, 2. 102.

R. pygmæus, Wahl. See syn. in DC. Syst. 1. 273.—Pursh, 393. Schlecht. Animad. Ranunc. 2. 12; Linn. 6. 578. Richards. in Frankl. Journ. 14. Seringe, Melange Bot. 2. 59. Meyer, Pl. Lab. 97. Hook. Fl. Bor.-Am. 1. 16. Don, Mill. 1. 34. Torr. & Gray, Fl. 1. 20. Hook. [illegible] Am. Bot. Beechey, 121 & 312. Seem. Bot. Herald, 23. Lange, Pl. Grönl. 129. R[illegible] Ost-Sib. 1. 46. Hook. f. Arct. Pl. 283 & 312. Rothr. Fl. Alask. 442. Lawson, Ranu[illegible] Canad. 39. Trautv. Trud. Petr. Bot. Cada, 1. 47. Porter, Fl. Col. 3.

R. Sabinii. R. Br. in Parry's 1st Voy. Appx. 264 (Flora, 7², Beil. 69). Seringe, Melange Bot. 2. 59. Hook. Fl. Bor.-Am. 1. 17. Don, Mill. 1. 34. Torr. & Gray, Fl. 1. 20. Walp. Rep. 1. 43. Dietr. Syn. 3. 319. Durand, Pl. Kane, 185.

R. recurvatus. Poir. Dict. 6. 123. Pursh, 394. Smith, Rees Cyc. n. 67. Deless. Icon. 1. 11, **t. 41.** DC. Syst. 1. 290, excl. var. *Nelsoni;* Prodr. 1. 39. Schlecht. Animad. 2. 28; Linn. 6. 579. Elliott, 2. 63. Spreng. Syst. 2. 655. Seringe, Melange Bot. 2. 64. Hook. Fl. Bor.-Am. 1. 20, excl. vars.; Jour. Bot. 1. 187. Don, Mill. 1. 38. Torr. & Gray, Fl. 1. 22 & 658. Ledeb. Fl. Ross. 1. 44, excl. β. Dietr. Syn. 3. 313. Torrey, Fl. N. Y. 1. 16. Chapman, 8. Gray, Manual, 42; Proc. Am. Acad. 8. 374.

R. lanuginosus. Walt. Fl. Car. 159.

R. leptopetalus. Raf. Fl. Lud. 83?

R. saniculæformis. Muhl. Cat. 56. Walp. Rep. 2. 740.

R. fascicularis. Spreng. Neue Entdeck. 1. 228, excl. syn.

R. repens, Linn. See syn. in DC. Syst. 1. 285; Ledeb. Fl. Ross. 1. 43 & 783.—

Pursh, 394. Elliott, 2. 60. Hook. Fl. Bor.-Am. 1. 19. Torr. & Gray, Fl. 1. 21 & 658. Torrey, Fl. N. Y. 1. 14; Nicol. Rep. 144; Pac. R. Rep. 4. 62; Bot. Wilkes, 215. Parry, Pl. Minn. 609. Gray, Pac. R. Rep. 12. 40; Manual, 43. Chapman, 8. Lesqx. Fl. Ark. 346. Hook. f. Arct. Pl. 283. Pl. Bourgeau, 263. Lawson, Ranunc. Canad. 34. Boland. Cat. 3. Watson, King's Rep. 5. 9. Porter, Hayd. Rep. 1870, 472; 1871, 477. Coulter, Hayd. Rep. 1872, 759. Brewer, Bot. Calif. 1. 8.

R. prostratus. Poir. Dict. 6. 113. Eaton, Manual, 5 ed. 358.

R. tomentosus. Poir. Dict. 6. 127. Pursh, 394. Smith, Rees Cyc. n. 65. DC. Syst. 1. 292; Prodr. 1. 40. Spreng. Neue Entdeck. 1. 287; Syst. 2. 653. Elliott, 2. 64. Don, Mill. 1. 39. Torr. & Gray, Fl. 1. 23. Dietr. Syn. 3. 324.

R. lanuginosus, var. γ. Poir. Dict. 6. 109. Pursh, 394.

R. intermedius. Eaton, Manual, 3 ed. 424.

R. Clintonii. Beck, Flora, 9. Paine, Cat. Pl. Oneida, 55.

Var. **hispidus.** Torr. & Gray, Fl. 1. 658. Nees, Pl. Wied, 3. Torrey, Nicol. Rep. 144; Mex. Bound. 30. Chapman, 8.

R. hispidus. Michx. Fl. 1. 321. Poir. Dict. 6. 110. Smith, Rees Cyc. n. 69. DC. Syst. 1. 289; Prodr. 1. 39. Schlecht. Animad. Ranunc. 2. 28. Elliott, 2. 52. Spreng. Syst. 2. 655. Hook. Fl. Bor.-Am. 1. 19, in part. Don, Mill. 1. 38. Torr. & Gray, Fl. 1. 22. Dietr. Syn. 3. 323. Hook. f. Arct. Pl. 283.

R. Marilandicus. Poir. Dict. 6. 126. Pursh, 394. Smith, Rees Cyc. n. 66. DC. Syst. 1. 291; Prodr. 1. 40. Schlecht. Animad. Ranunc. 2. 31. Spreng. Syst. 2. 656. Don, Mill. 1. 39. Dietr. Syn. 3. 324.

R. Pennsylvanicus & philonotis. Pursh, 393.

R. fascicularis. Barton, Comp. Fl. Phil. 2. 25, not Bigel. Muhl. Cat. 56? Schlecht. Animad. Ranunc. 2. 30, **t. 2**; Linn. 5. 210. Seringe, Melange Bot. 2. 64.

R. Schlechtendahlii. Hook. Fl. Bor.-Am. 1. 21. Graham in Edinb. Phil. Jour. 1829, 188. Don, Mill. 1. 38. Torr. & Gray, Fl. 1. 659. Walp. Rep. 1. 43. Dietr. Syn. 3. 324.

? *R. Hookeri.* Schlecht. in Linn. 9. 610. Dietr. Syn. 3. 321. Peyricht in Linn. 30. 51.

R. repens, var. *Marilandicus.* Torr. & Gray, Fl. 1. 31. Torrey, Mex. Bound. 30.

Var. **nitidus.** Chapman, 8.

R. lucidus. Poir. Dict. 6. 113.

? *R. septentrionalis.* Poir. Dict. 6. 123. Pursh, 394. Torr. & Gray, Fl. 1. 25.

R. nitidus. Muhl. Cat. 2 ed. 56, not Walt. Elliott, 2. 60. Seringe, Melange Bot. 2. 63. Hook. Fl. Bor.-Am. 1. 20. Don, Mill. 1. 39. Dietr. Syn. 3. 324.

R. Carolinianus. DC. Syst. 1. 292; Prodr. 1. 40. Schlecht. Animad. Ranunc. 2. 31. Elliott, 2. 62. Spreng. Syst. 2. 656.

R. Belvisii. DC. Syst. 1. 291; Prodr. 1. 40. Spreng. Syst. 2. 655. Don, Mill. 1. 39.

R. rhomboideus. Goldie in Edinb. Phil. Jour. 6. 329 (1822), **t. 11, fig. 1.** Richards. in Frankl. Journ. 13. Hook. Fl. Bor.-Am. 1. 12. Don, Mill. 1. 33. Torr. & Gray, Fl. 1. 18. Walp. Rep. 1. 42. Dietr. Syn. 3. 317. Pl. Bourgeau, 254. Gray, Manual, 42. Lawson, Ranunc. Canad. 36.

R. ovalis. Raf. in Jour. Bot. 1814, 268. Poir. Suppl. 5. 778. DC. Prodr. 1. 43. Graham, Edinb. Phil. Jour. 1829, 188. Hook. Fl. Bor.-Am. 1. 12, **t. 6, fig. B.** Don, Mill. 1. 33. Torr. & Gray, Fl. 1. 18. Walp. Rep. 1. 42. Dietr. Syn. 3. 318.

R. brevicaulis. Hook. Fl. Bor.-Am. 1. 13, **t. 7, fig. A**; Lond. Jour. Bot. 6. 66. Don, Mill. 1. 29. Torr. & Gray, Fl. 1. 18. Walp. Rep. 1. 42. Dietr. Syn. 3. 314.

R. sceleratus, Linn. See syn. in DC. Syst. 1. 298; Schlecht. Animad. Ranunc.

2. 10; Ledeb. Fl. Ross. 1. 45 & 732. — Pursh, 393. Richards. in Frankl. Journ. 14. DC. Prodr. 1. 34. Elliott, 2. 59. Hook. Fl. Bor.-Am. 1. 15; Lond. Jour. Bot. 6. 66. Torr. & Gray, Fl. 1. 19. Torrey, Fl. N. Y. 1. 13; Nicol. Rep. 144; Frem. Rep. 87. Chapman, 8. Pl. Bourgeau, 254. Hook. f. Arct. Pl. 283. Gray, Manual, 42. Lawson, Ranunc. Canad. 38. Watson, King's Rep. 5. 8. Porter, Hayd. Rep. 1870, 472; Fl. Col. 3.

R. trachyspermus. Engelm. in Pl. Lindh. 3, not Ell. Walp. Ann. 2. 10. Torrey, Mex. Bound. 29. Gray; Hall's Pl. Tex. 3.

Var. **Lindheimeri.** Engelm. l. c. Torrey, Pac. R. Rep. 4. 62.

R. acris; Californicus.
affinis; auricomus.
alismæfolius; ambigens.
Altaicus; nivalis.
amœnus; adoneus, affinis.
amphibius; multifidus.
arcticus & *auricomus;* affinis.
Beckii; multifidus.
Belvisii; repens.
brevicaulis; rhomboideus.
cæspitosus; affinis.
Canadensis; Pennsylvanicus.
canus; Californicus, occidentalis.
cardiophyllus; affinis.
Caroliniianus; palmatus, repens.
Cassubicus; auricomus.
Chamissonis; glacialis.
Cloutonii; repens.
delphinifolius; Californicus, multifidus.
dichotomus; orthorhynchus.
dissectus; Californicus.
divaricatus; aquatilis.
Eschscholtzii; affinis, nivalis.
fascicularis; Californicus, recurvatus, repens.
Ficaria; Caltha palustris.
filiformis; Flammula.
Flammula; ambigens, oblongifolius, pusillus.
fluviatilis; aquatilis, multifidus.
frigidus; nivalis.
glaberrimus; alismæfolius.
Gmelini; multifidus.
halophilus; Cymbalaria.
heterophyllus; aquatilis.
hirsutus; Pennsylvanicus.
hispidus; occidentalis, Pennsylvanicus, repens.
Hookeri; repens.
humilis; pusillus.

R. hydrocharis; aquatilis.
intermedius; repens.
lacustris & *Langsdorffii;* multifidus.
lanuginosus; recurvatus, repens.
leptopetalus; recurvatus.
lyrosus; multifidus.
Lingua; ambigens.
lucidus & *Marylandicus;* repens.
macranthus; abortivus.
natans; hyperboreus.
nitidus; abortivus, repens.
occidentalis; Nelsoni.
orthorhynchus; adoneus.
ovalis; rhomboideus.
pantothrix; aquatilis.
parviflorus; hebecarpus.
pedatifidus; affinis, Hookeri.
Pennsylvanicus, philonotis & *prostratus;* repens.
Pursh; multifidus.
pusillus; oblongifolius.
radicans; hyperboreus, multifidus.
recurvatus; Nelsoni.
repens; macranthus.
reptans; Flammula.
Robini; ambigens.
Sabini; pygmæus.
salsuginosus; Cymbalaria.
saniculæformis; recurvatus.
sarmentosus; Cymbalaria.
Schlechtendahlii & *septentrionalis;* repens.
sulphureus; nivalis.
tenellus; Nelsoni.
Texensis; oblongifolius.
tomentosus; repens.
trachyspermus; parviflorus.
tridentatus; Cymbalaria.
trifolius; Pennsylvanicus.
tuberosus; Hornemanni.

THALICTRUM alpinum, Linn. See syn. in DC. Syst. 1. 175; Ledeb. Fl. Ross. 1. 6; Regel, Uebers. Thaliet. 15. — Bot. Mag. **t. 2237.** Schlecht. in Linn. 6. 572. Torr. & Gray, Fl. 1. 39. Hook. & Arn. Bot. Beechey, 120. Walp. Ann. 4. 11. Seem. Bot. Herald, 23. Lange, Pl. Grönl. 128. Hook. f. in Jour. Linn. Soc. 1. 116; Arct. Pl. 283. Wood, Cl.-Book, 204. Gray, Am. Jour. Sci. 2. 33. 241; Proc. Acad. Philad. 1863, 56. Rothr. Fl. Alask. 442. Lawson, Ranunc. Canad. 33. Watson, King's Rep. 5. 4. Porter, Fl. Col. 1.

T. anemonoides. Michx. Fl. 1. 322. DC. Syst. 1. 186; Prodr. 1. 15. Elliott, 2. 52. Spreng. Syst. 2. 674. Hook. Fl. Bor.-Am. 1. 4. Sweet, Brit. Fl. Gard. 2 ser. **t. 150.** Darling. Fl. Cestr. 333. Torr. & Gray, Fl. 1. 39. Nees, Pl. Wied, 3. Dietr. Syn. 3. 343. Torrey, Fl. N. Y. 1. 24. Gray, Genera, 1. 24, **t. 6**; Manual, 38. Parry, Pl. Minn. 608. Lemaire, L'Ill. Hort. 6, **t. 211.** Chapman, 6.

Anemone thalictroides. Linn. Spec. 542. Hill, Veg. Syst. 25, **t. 45, fig. 5.** Lam. Dict. 1. 168. Ait. Hort. Kew. 2. 257. Willd. Spec. 2. 1284; Hort. Berol. **t. 44.** Juss. in Ann. Mus. 3. 249, **t. 21.** Sims, Bot. Mag. **t. 866.** Persoon, 2. 98. Poir. Suppl. 1. 363. Pursh, 387. Barton, Fl. N. Am. 2. 27, **t. 44.** Lodd. Bot. Cab. **t. 770** & **964.** Don, Mill. 1. 15.

Syndesmon thalictroides. Hoffmansegg in Flora, 1832, Intell. Blatt. 34. Lawson, Ranunc. Canad. 31.

Anemonella thalictroides. Spach, Hist. Veg. 7. 240.

T. clavatum. DC. Syst. 1. 171; Prodr. 1. 11. Deless. Icon. Sel. 1. 2, **t. 6.** Spreng. Syst. 2. 670. Don, Mill. 1. 11. Gray, Am. Jour. Sci. 42. 17 (Lond. Jour. Bot. 1. 223); Genera, 1. 24, **t. 6**; Proc. Acad. Philad. 1863, 56; Manual, 39. Dietr. Syn. 3. 338. Chapman, 6. Wood, Bot. & Fl. 19.

T. filipes. Torr. & Gray, Fl. 1. 38. Walp. Rep. 1. 13. Dietr. Syn. 3. 342. Wood, Cl.-Book, 204.

T. Cornuti. Linn. Spec. 545. Hill, Veg. Syst. 24, **t. 7, fig. 4.** Ait. Hort. Kew. 2. 262. Willd. Spec. 2. 1296. Poir. Dict. 5. 319. Pursh, 388. Hook. Fl. Bor.-Am. 1. 3, **t. 2.** Don, Mill. 1. 11, in part. Torr. & Gray, Fl. 1. 38, in part; Pac. R. Rep. 2. 125. Torrey, Fl. N. Y. 1. 23, in part; Frem. Rep. 87; Emory's Rep. 406. Gray, Pl. Fendl. 5; Pac. R. Rep. 12. 40; Manual, 39. Chapman, 5. Lesqx. Fl. Ark. 346. Parry, Pl. Minn. 608. Pl. Bourgeau, 254. Lawson, Ranunc. Canad. 31.

T. confertum. Moench, 297.

T. discolor. Willd. Enum. Appx. 46. Spreng. Pl. Min. Cog. 1. 39.

T. crenatum. Desf. "Cat. h. Par. 2 ed. 126."

T. rugosum. Pursh, 388. DC. Syst. 1. 185; Prodr. 1. 14. Elliott, 2. 51.

T. Caroliniamum. Bosc. in DC. Syst. 1. 174; Prodr. 1. 12. Elliott, 2. 51. Spreng. Syst. 2. 671. Don, Mill. 1. 12.

T. corynellum. DC. Syst. 1. 172; Prodr. 1. 12. Richards. in Frankl. Journ. 12. Spreng. Syst. 2. 671. Seem. Bot. Herald, 50.

? *T. leiostemon.* Koch & Bouche, Ind. Sem. Berol. 1854, 13. Walp. Ann. 4. 12.

T. dasycarpum. Fisch. & Lall. in Ind. Sem. Petr. 1841, 72 (Litt. Ber. zu Linn. 1841, 175), in part. Walp. Rep. 1. 13.

T. Cornuti, β. Fisch. & Mey. Ind. Sem. Petr. 7. 34.

T. debile. Buckley, Am. Jour. Sci. 45. 175. Gray, Pl. Wright, 2. 8. Chapman, 5. Young, Fl. Tex. 142. — Var. **Texanum.** Gray in Hall's Pl. Tex. 3.

T. Noicum. Linn. Spec. 545. Ait. Hort. Kew. 2. 262. Moench, 297. Willd. Spec. 2. 1296. Poir. Dict. 5. 320. Pursh, 388. DC. Syst. 1. 173; Prodr. 1. 12. Elliott, 2. 50. Hook. Fl. Bor.-Am. 1. 13; Lond. Jour. Bot. 6. 68. Don, Mill. 1. 12. Nuttall, Jour. Acad. Philad. 7. 7? Torr. & Gray, Fl. 1. 38. Dietr. Syn. 3.

339. Torrey, Fl. N. Y. 1. 23; Nicol. Rep. 144; Pac. R. Rep. 4. 61. Seem. Bot. Herald, 50. Newberry, Pac. R. Rep. 6. 65. Hook. f. Arct. Pl. 283. Chapman, 5. Pl. Bourgeau, 254. Gray, Manual, 39. Lawson, Ranunc. Canad. 32. Boland. Cat. 3.

T. lævigatum. Michx. Fl. 1. 322. Persoon, 2. 100.

T. Fendleri. Engelm.; Gray, Pl. Fendl. 5; Pl. Wright. 2. 7; Am. Jour. Sci. 2. 33. 241; Proc. Acad. Philad. 1863, 56. Walp. Ann. 2. 5. Torrey, Sitgr. Rep. 155; Mex. Bound. 29. Boland. Cat. 3. Anderson, Cat. Pl. Nev. 117. Watson, King's Rep. 5. 4. Porter, Hayd. Rep. 1871, 477; Fl. Col. 2. Coulter, Hayd. Rep. 1872, 758.

? *T. megacarpum.* Torrey, Frem. Rep. 87.

Var. **polycarpum.** Torrey, Pac. R. Rep. 4. 61.

T. Kemense. Fries, Fl. Hall. 1. 94. Ledeb. Fl. Ross. 1. 13. Walp. Rep. 1. 11. Maxim. Fl. Amur. 16. Regel, Uebers. Thalict. 36, **t. 3, fig. 2** & **3**, with syn.

T. majus. Schlecht. in Linn. 6. 573? Hook. & Arn. Bot. Beechey, 111?

T. minus, Linn., var. *majus.* Miquel, Prol. Fl. Jap. 191.

T. nudicaule. Schwein.; Torr. & Gray, Fl. 1. 39. Walp. Rep. 1. 13. Dietr. Syn. 3. 343. Chapman, 6.

T. occidentale. Gray, Proc. Am. Acad. 8. 372.

T. dioicum, var. *oxycarpum.* Torrey, Bot. Wilkes, 212?

T. purpurascens. Linn. Spec. 546. Hill, Veg. Syst. 24, **t. 8, fig. 4.** Willd. Spec. 2. 1299. Poir. Dict. 5. 319. Ait. f. Hort. Kew. 3. 348. Spreng. Pl. Min. Cog. 1. 38. Pursh, 389. DC. Syst. 1. 174; Prodr. 1. 12. Hook. Fl. Bor.-Am. 1. 3. Don, Mill. 1. 12. Gray, Manual, 39; Hall's Pl. Tex. 3. Lawson, Ranunc. Canad. 32. Porter, Fl. Col. 1.

T. rugosum. Ait. Hort. Kew. 2. 262? Willd. Spec. 2. 1298. Poir. Dict. 5. 319. Spreng. l. c. 1. 38; Syst. 2. 673. Torrey, Compend. 223. Don, Mill. 1. 14.

T. polygamum. Muhl. Ind. Fl. Lanc. 172; Cat. 2 ed. 56. Spreng. Syst. 2. 671.

T. pubescens. Pursh, 388.

T. revolutum. DC. Syst. 1. 173; Prodr. 1. 12. Elliott, 2. 49. Spreng. Syst. 2. 671.

T. Cornuti. Torr. & Gray, Fl. 1. 38, in part. Torrey, Fl. N. Y. 1. 24, in part.

Var. **ceriferum.** Austin; Gray's Manual, 39. Gray, Hall's Pl. Tex. 3.

T. sparsiflorum. Turcz. in Ind. Sem. Petr. 1. 40 (Ann. Sci. Nat. 2. 4. 332; Litt. Ber. zu Linn. 10. 105); Fl. Baic. 1. 27. Ledeb. Fl. Ross. 1. 5 & 726. Walp. Rep. 1. 12 & 13. Maxim. Fl. Amur. 12. Regel, Uebers. Thalict. 3, **t. 1.** Gray, Pl. Wright, 2. 8; Am. Jour. Sci. 2. 33. 241; Proc. Acad. Philad. 1863, 56. Watson, King's Rep. 5. 4. Porter, Hayd. Rep. 1870, 472; Fl. Col. 1.

T. clavatum. Hook. Fl. Bor.-Am. 1. 2; not DC. Don, Mill. 1. 11. Torr. & Gray, Fl. 1. 37. Lawson, Ranunc. Canad. 33.

T. Richardsonii. Gray, Am. Jour. Sci. 42. 17 (Lond. Jour. Bot. 1. 223).

T. Wrightii. Gray, Pl. Wright. 2. 7. Walp. Ann. 4. 12.

T. Caroliniannum; T. Cornuti; Anemone Walteri.
clavatum; sparsiflorum.
Cornuti; dasycarpum, purpurascens.
corynellum & *crenatum;* Cornuti.
dioicum; occidentale.
T. discolor; Cornuti.
filipes; clavatum.
lævigatum; dioicum.
leucostemon; Cornuti.
majus & *minus;* Kemense.
palmatum; Trautvetteria palmata.

T. polygamum & pubescens; purpurascens.
ranunculinum; Trautvetteria palmata.
revolutum; purpurascens.
T. Richardsonii; sparsiflorum.
rotundifolium; Trautvetteria palmata.
rugosum; Cornuti, purpurascens.

TRAUTVETTERIA palmata. Fisch. & Mey. Ind. Sem. Petr. 1. 22 (Litt. Ber. zu Linn. 10. 82; Ann. Sci. Nat. 2. 4. 335). Torr. & Gray, Fl. 1. 37. Spach, Hist. Veg. 7. 234. Walp. Rep. 1. 59. Ledeb. Fl. Ross. 1. 741. Gray, Genera, 1. 26, t. **7**; Manual, 40. Chapman, 6. Baillon, Hist. Pl. 1. 36 (under *Ranunculus*).

Hydrastis Caroliniensis. Walt. Fl. Car. 156.

Cimicifuga palmata. Michx. Fl. 1. 316. Poir. Suppl. 2. 26. Lam. Ill. 3. 34, t. **500**. Pursh, 373. Sims, Bot. Mag. t. **1630**. Elliott, 2. 17. Spreng. Syst. 2. 628. Don, Mill. 1. 64.

Thalictrum ranunculinum. Muhl. in Willd. Enum. 585. Pursh, 389. DC. Syst. 1. 186; Prodr. 1. 15. Elliott, 2. 52. Don, Mill. 1. 14.

Hydrastis Canadensis. Poir. Suppl. 3. 71, not Linn.

Actæa palmata. DC. Syst. 1. 383. Dietr. Syn. 3. 233.

Thalictrum palmatum. Spreng. Syst. 2. 674.

Thalictrum Japonicum. Zieb. & Zucc., f. Miquel, Prol. Fl. Jap. 192.

Var. **occidentalis.** Gray, Proc. Am. Acad. 8. 372.

T. grandis. Nuttall in Torr. & Gray, Fl. 1. 37. Walp. Rep. 1. 60. Torrey, [illegible] Wilkes, 213.

[illegible] *palmata.* Hook. Fl. Bor.-Am. 1. 26, excl. syn.

Actæa grandis. Dietr. Syn. 3. 233.

TROLLIUS laxus. Salisb. in Trans. Linn. Soc. 8. 303 (1803). Pursh, 391. Gray, Ann. Lyc. N. Y. 3. 222; Genera, 1. 34, t. **11**; Manual, 44. Torr. & Gray, Fl. 1. 28. Torrey, Fl. N. Y. 1. 18, t. **3**; Bot. Wilkes, 215. Lawson, Ranunc. Canad. 45. Watson, King's Rep. 5. 10. Porter, Hayd. Rep. 1870, 473; 1871, 477. Coulter, Hayd. Rep. 1872, 759.

T. Americanus. Muhl. Ind. Fl. Lanc. 172 (1791); Cat. 2 ed. 56. Lodd. Bot. Cab. t. **56**. Sims, Bot. Mag. t. **1988**. DC. Syst. 1. 313; Prodr. 1. 46. Spreng. Syst. 2. 658. Hook. Fl. Bor.-Am. 1. 23. Don, Mill. 1. 45. Spach, Hist. Veg. 7. 299. Ledeb. Fl. Ross. 1. 51. Turcz. Fl. Baic. 1. 63. Dietr. Syn. 3. 336. Regel & Til. Fl. Ajan. 34. Regel, Fl. Ost-Sib. 1. 56.

Var. **albiflorus.** Gray, Am. Jour. Sci. 2. 33. 241; Proc. Acad. Philad. 1863. 57.

XANTHORRHIZA apiifolia. L'Her. Stirp. 79, t. **38** (Ehrh. Beitrage, 6. 123). Ait. Hort. Kew 1. 299. Willd. Spec. 1. 1568. Barton, Elem. Bot. Appx. 24, t. **12**. Michx. Fl. 1. 186. Nouv. Duham. 3. 181, t. **37**. Poir. Dict. 8. 838. Desf. Arb. 1. 371. Sims, Bot. Mag. t. **1736**. Barton, Mat. Med. 2. 11, t. **46**. Nuttall, Genera, 1. 2[illegible]. [illegible] Syst. 1. 386. Prodr. 1. 65. Elliott, 1. 376. Röm. & Schult. Syst. 6. 801. Lam. Ill. 3. 444, t. **854**. Torrey, Fl. U. S. 1. 333; Fl. N. Y. 1. 25. Don, Mill. 1. 65. Lindl. Med. 12. Spach, Hist. Veg. 7. 409. Torr. & Gray, Fl. 1. 40. Dietr. Syn. 2. 1037. Loud. Arbor. 1. 251, fig. **31**. Gray, Genera, 1. 45, t. **17**; Manual, 47. Curtis, Bot. N. Car. 104. Chapman, 11. Baillon, Hist. 1. 6, f. **13-14**.

Xanthorhiza simplicissima. Marshall, Arbust. 168.

Actæa dioica. Walt. Fl. Car. 152.

DILLENIACEÆ (?).

CROSSOSOMA Californicum. Nutt. Pl. Gamb. in Journ. Acad. Philad. 2. 1. 150, t. **22**, & Proc. 4. 8. Torrey, Pac. R. Rep. t. **1**, fig. **1**, **2**; Bot. Wilkes, 218. Watson, Proc. Am. Acad. 11. 112. Brew. & Wats. Bot. Calif. 1. 13.

CALYCANTHACEÆ.

CALYCANTHUS floridus. Linn. Spec. 2 ed. 718. Lam. Dict. 1. 565; Ill. 2. 551, t. **445**, f. **1**. Marsh. Arbust. 24. Ait. Hort. Kew. 2. 220. Willd. Spec. 2. 1119. Bot. Mag. t. **503**. Nouv. Duham. 1. 217, t. **47**. Michx. Fl. 1. 305. Schkuhr, Handb. t. **138**. Pursh, 357. Nutt. Genera, 1. 312. Elliott, 1. 576. Guimp. Ott. & Hayne, t. **4**. DC. Prodr. 3. 2. Spreng. Syst. 2. 543. Mirbel, Ann. Sci. Nat. 1. 14. 367, t. **13** (stem). Don, Mill. 2. 652. Spach, Hist. Veg. 4. 283. Audubon, Birds, t. **393**. Torr. & Gray, Fl. 1. 475, excl. vars. Dietr. Syn. 3. 206. Schnizl. Icon. t. **271**. Agardh, Theor. Syst. t. **11**, f. **11**, **12**. Curtis, Bot. N. Car. 107. Lesqx. Fl. Ark. 359. Chapman, 130. Gray, Struct. Bot. 417, f. **814–821**; Manual, 163. Baill. Hist. Pl. 1. 289, f. **306–308**.

C. sterilis. Walt. Fl. Car. 151. Poir. Suppl. 2. 39.

C. glaucus. Willd. Hort. Berol. 80; Enum. 559. Pursh, 357. Poir. Suppl. 5. 591. Nutt. Genera, 1. 312. Elliott, 1. 577. Guimp. Ott. & Hayne, t. **5**. DC. Prodr. 3. 2. Spreng. Syst. 2. 544. Spach, Hist. Veg. 4. 282. Curtis, Bot. N. Car. 108. Chapman, 130. Gray, Manual.

C. fertilis. Walt. Fl. Car. [illegible] Poir. Suppl. 2. 39. Ait. f. Hort. Kew. 3. 282. Lindl. Bot. Reg. t. **404**. Don, Mill. 2. 652, f. **85**.

C. floridus, var. *glaucus*. Torr. & Gray, Fl. 1. 475. Dietr. Syn. 3. 206.

C. lævigatus. Willd. Hort. Berol. t. **80**; Enum. 559. Pursh, 358. Poir. Suppl. 5. 591. Nutt. Genera, 1. 312. Lindl. Bot. Reg. t. **481**. Elliott, 1. 577. Torrey, Fl. U. S. 501. Guimp. Ott. & Hayne, t. **6**. DC. Prodr. 3. 2. Spreng. Syst. 2. 544. Don, Mill. 2. 652. Spach, Hist. Veg. 4. 282. Curtis, Bot. N. Car. 108. Chapman, 130. Baill. Hist. Pl. 1. 290, f. **309–311**. Maout & Decne. 397, fig. Gray, Manual, 163.

C. nanus. Nouv. Duham. 1. 219, t. **48**.

C. ferax. Michx. Fl. 1. 305. Loisel. Herb. Amat. t. **172** b.

C. fertilis. Andr. Bot. Rep. 8, t. **539**.

C. inodorus. Elliott, 1. 576. Spach, Hist. Veg. 4. 283.

C. floridus, vars. *inodorus* & *lævigatus*. Torr. & Gray, Fl. 1. 475. Dietr. Syn. 3. 206.

C. occidentalis. Hook. & Arn. Bot. Beechey, 340, t. **84**. Torr. & Gray, Fl. 1. 476. Dietr. Syn. 3. 206. Walp. Rep. 2. 60. Benth. Pl. Hartw. 309. Lindl. Jour. Hort. Soc. 6. 218. Paxton, Fl. Gard. 2. 98, f. **184**. Hook. Bot. Mag. t. **4808**. Revue Hort. 3. 341 & t. Fl. des Serres, 11. 77, t. **1113**. Torrey, Pac. R. Rep. 4. 86. Newberry, Pac. R. Rep. 6. 73. Kellogg, Proc. Calif. Acad. 1. 64. Baill. Hist. Pl. 1. 292, f. **312–313**. Boland. Cat. 11. Brew. & Wats. Bot. Calif. 1. 191.

MAGNOLIACEÆ.

ILLICIUM Floridanum. Ellis, Phil. Trans. 60. 524, t. **12**. Linn. Mant. 1. 395 Lam. Dict. 1. 352; Ill. 3. 37, t. **493**, f. **1**. Gaert. Fruct. 1. 339, t. **69**. Ait. Hort. Kew. 2. 250. Bot. Mag. t. **439**. Michx. Fl. 1. 326. Nouv. Duham. 3. 190, t. **47**. Pursh, 380. Lodd. Bot. Cab. t. **209**. DC. Syst. 1. 441; Prodr. 1. 77. "Loisel. Herb. Amat. t. **171** b." Bigel. Am. Med. Bot. 3. 76, t. **48**. Spreng. Syst. 2. 643. Raf. Med. Bot. 2. 59, t. **54**. Don, Mill. 1. 79. Hook. Jour. Bot. 1. 188. Lindl. Fl. Med. 25. Paxton, Mag. Bot. 5. 147 & t. Torr. & Gray, Fl. 1. 42. Spach, Hist.

Veg. 7. 443. Dietr. Syn. 3. 310. Loud. Arbor. 1. 256. **f. 32.** Gray, Genera, 1. 56, **t. 21.** Schnizl. Icon. **t. 176, f. 22–27.** Chapman, 13. Wood, Cl.-Book, 213; Bot. & Fl. 24. Baill. Hist. Pl. 1. 555.

I. parviflorum. Vent. Hort. Cels. **t. 22.** Michx. Fl. 1. 326. Nouv. Duham. 3. 190. Poir. Suppl. 1. 558. Ait. f. Hort. Kew. 3. 328. Pursh, 380. Loisel. Herb. Amat. **t. 330.** DC. Syst. 1. 442; Prodr. 1. 77. Elliott, 2. 35. Spreng. Syst. 2. 644. Don, Mill. 1. 79. Torr. & Gray, Fl. 1. 42. Dietr. Syn. 3. 310. Loud. Arbor. 1. 259. Chapman, 13. Wood, Cl.-Book, 213; Bot. & Fl. 24. Baill. Hist. Pl. 1. 151, **f. 191–194.** Wright & Sauv. Fl. Cub. 2.

I. anisatum. Bartram, Trav. 24.

Cymbostemon parviflorus. Spach, Hist. Veg. 7. 443.

LIRIODENDRON Tulipifera. Linn. Spec. 535. Marsh. Arbust. 78. Walt. Fl. Car. 158. Ait. Hort. Kew. 2. 250. Gaert. Fruct. 2, **t. 178.** Bot. Mag. **t. 275.** Moench, Meth. 222. Schkuhr. Handb. 2. 93, **t. 147.** Willd. Spec. 2. 1254. Michx. Fl. 1. 326. Nouv. Duham. 3. 62, **t. 18.** Poir. Dict. 8. 137; Ill. 3. 36, **t. 491.** St. Hil. Pl. France, 3, **t. 377.** Kerner, Genera, **t. 1.** Michx. f. Arb. Am. 3. 202, **t. 5.** Pursh, 382. Barton, Med. Bot. **t. 8.** DC. Syst. 1. 462; Prodr. 1. 82. Bigel. Med. Bot. 2. 107, **t. 31.** James, Long's Exp. 3. 36. Elliott, 2. 40. Guimp. Otto & Hayne, **t. 29.** Spreng. Syst. 2. 642. Audubon, Birds, **t. 12.** Don, Mill. 1. 86. Lindl. Fl. Med. 23. Spach, Hist. Veg. 7. 488. Torr. & Gray, Fl. 1. 44. Dietr. Syn. 3. 309. Torr. Fl. N. Y. 1. 28. Loud. Arbor. 1. 284, **t. 13, 14.** Emerson, Trees of Mass. 529. Gray, Genera, 1. 64, **t. 25**; Manual, 50. Agardh, Syst. Pl. **t. 11, f. 2, 3.** Curtis, Bot. N. Car. 77. Chapman, 14. Lemaire, L'Ill. Hort. 15, **t. 571.** Baill. Hist. Pl. 1. 143, **f. 175–178.** Ridgway, Am. Naturalist, 6. 663.

L. procerum. Salisb. Prodr. 379.

MAGNOLIA acuminata. Linn. Spec. 2 ed. 756. Marsh. Arbust. 83. Walt. Fl. Car. 159. Ait. Hort. Kew. 2. 251. Lam. Dict. 3. 674. Willd. Spec. 2. 1257. Michx. Fl. 1. 328. Nouv. Duham. 2. 222. Michx. f. Arb. Am. 3. 82, **t. 3.** Pursh, 381. DC. Syst. 1. 453; Prodr. 1. 80. Lodd. Bot. Cab. **t. 418.** Bot. Mag. **t. 2427.** Elliott, 2. 37. Guimp. Otto & Hayne, **t. 17.** Spreng. Syst. 2. 642. Don, Mill. 1. 83. "Reich. Fl. Exot. **t. 251.**" Torr. & Gray, Fl. 1. 43. Dietr. Syn. 3. 308. Torr. Fl. N. Y. 1. 28. Loud. Arbor. 1. 273, **t. 7, 8. Curtis, Bot. N. Car.** 67. Chapman, 60. Gray, Manual, 49. Baill. Hist. Pl. 1. 140.

M. Virginiana, var. *ε*. Linn. Spec. 536.

M. DeCandollii. "Savi, Bibl. Ital. 1. 224 & **t.**"

Tulipastrum Americanum. Spach, Hist. Veg. 7. 483.

M. cordata. Michx. Fl. 1. 328. Ait. f. Hort. Kew. 3. 331. Poir. Suppl. 3. 574. Michx. f. Arb. Am. 3. 87, **t. 4.** Pursh, 382. Bot. Reg. 4, **t. 325.** Nutt. Genera, 2. 18. DC. Syst. 1. 455; Prodr. 1. 80. Lodd. Bot. Cab. **t. 474.** Spreng. Syst. 2. 642. Don, Mill. 1. 83. "Reich. Fl. Exot. **t. 250.**" Torr. & Gray, Fl. 1. 43. Dietr. Syn. 3. 308. Loud. Arbor. 1. 275, **t. 9.** Curtis, Bot. N. Car. 68. Chapman, 14. Wood, Cl.-Book, 214; Bot. & Fl. 25.

Tulipastrum Americanum, var. *subcordatum.* Spach, Hist. Veg. 7. 483.

M. Fraseri. Walt. Fl. Car. 159, **t.** Torr. & Gray, Fl. 1. 43. Walp. Rep. 1. 70. Dietr. Syn. 3. 308. Curtis, Bot. N. Car. 68. Chapman, 14. Gray, Manual, 49. Wood, Bot. & Fl. 25.

M. auriculata. Lam. Dict. 3. 673. Bartram, Trav. 339. Willd. Spec. 2. 1258. Michx. Fl. 1. 328. Nouv. Duham. 2. 222. Andr. Bot. Rep. 9, **t. 573.** Bot. Mag. **t. 1206.** "Cubièr. Mem. Magn. & **t.**" Ait. f. Hort. Kew. 3. 332. Pursh, 382. Nutt. Genera, 2. 18; Sylv. 1. 84. DC. Syst. 1. 454; Prodr. 1. 80. Elliott, 2. 39.

Spreng. Syst. 2. 642. Audubon, Birds, t. **38.** Don, Mill. 1. 83. Hook. Jour. Bot. 1. 188. Spach, Hist. Veg. 7. 477. Loud. Arbor. 1. 276, t. **10.**

M. pyramidata. Bartr. Trav. 340. Pursh, 382. DC. Syst. 1. 454; Prodr. 1. 80. Bot. Reg. 5, t. **407.** Lodd. Bot. Cab. t. **1092.** Raf. Med. Bot. 2. 32. Don, Mill. 1. 83. Loud. Arbor. 1. 277, t. **11.**

M. auricularis. Salisb. Parad. Lond. 1, t. **43.** "Kerner, Hort. t. **360.**"

M. glauca. Linn. Spec. 2. ed. 755. Marsh. Arbust. 83. Walt. Fl. Car. 158. Lam. Dict. 3. 674. Ait. Kew. 2. 251. Moench, Meth. 274. Willd. Spec. 2. 1256. Schkuhr, Handb. 2. 1441, t. **148.** Michx. Fl. 1. 327. Nouv. Duham. 2. 223, t. **66.** Bonpl. Pl. Malm. 103, t. **42.** Michx. f. Arb. Am. 3. 77, t. **2.** Pursh, 381. Bigel. Fl. Bost. 139; Med. Bot. 2. 67, t. **27.** Barton, Med. Bot. t. **7.** Lodd. Bot. Cab. t. **215.** DC. Syst. 1. 452; Prodr. 1. 80. Bot. Mag. t. **2164.** Spreng. Syst. 2. 642. Audubon, Birds, t. **118.** Don, Mill. 1. 82. Hook. Jour. Bot. 1. 188. "Reich. Fl. Exot. 5. 37, t. **342.**" Lindl. Fl. Med. 23. Torr. & Gray, Fl. 1. 42. Spach, Hist. Veg. 7. 473. Dietr. Syn. 3. 308. Torrey, Fl. N. Y. 1. 27, t. **5.** Loud. Arbor. 1. 267, t. **3, 4.** Emerson, Trees Mass. 527. Gray, Genera, 1. 61, t. **23**; Struct. Bot. 381, f. **651–653**; Manual, 49. Schnizl. Icon. t. **176, figs.** Curtis, Bot. N. Car. 66. Chapman, 13. Lesqx. Fl. Ark. 347.

M. Virginiana, var. *α. glauca.* Linn. Spec. 535.

M. fragrans. Salisb. Prodr. 379. Raf. Fl. Lud. 91; Med. Bot. 2 32.

M. longifolia. Sweet, Hort. Brit. 11. Don, Mill. 1. 83. Dietr. Syn. 3. 308.

Var. **pumila.** Nutt. in Am. Jour. Sci. 5. 295.

M. grandiflora. Linn. Spec. 2 ed. 755. Marsh. Arbust. 84. Am. Gewach. t. **185, 186.** Walt. Fl. Car. 158. Gaertn. Fruct. 1. 343, t. **70.** Ait. Hort. Kew. 2. 251. Bartr. Trav. 85. Lam. Dict. 3. 672; Ill. 3. 35, t. 490. Moench, Meth. 274. Willd. Spec. 2. 1255. Michx. Fl. 1. 327. Nouv. Duham. 2. 219, t. **65.** Andr. Bot. Rep. 8, t. **518.** Michx. f. Arb. Am. 3. 71, t. **1.** Pursh, 380. Bot. Mag. t. **1952.** DC. Syst. 1. 450; Prodr. 1. 80. Elliott, 2. 36. Lodd. Bot. Cab. t. **814.** Spreng. Syst. 2. 642. Audubon, Birds, t. **5** & **32.** Don, Mill. 1. 82. Croom, Am. Jour. Sci. 1. 26. 314. Hook. Jour. Bot. 1. 188. Torr. & Gray, Fl. 1. 42. Spach, Hist. Veg. 7. 470. Nutt. Sylva, 1. 81. Dietr. Syn. 3. 308. Loud. Arbor. 1. 261, t. **1, 2.** Curtis, Bot. N. Car. 66. Chapman, 13. Wood, Cl.-Book, 214; Bot. & Fl. 24. Baill. Hist. Pl. 1. 133, f. **165–169.** Gray, Hall's Pl. Tex. 3.

M. Virginiana, var. *β. fœtida.* Linn. Spec. 536, in part.

M. macrophylla. Michx. Fl. 1. 327. Nouv. Duham. 2. 221. Ait. f. Hort. Kew. 3. 331. Poir. Suppl. 3. 573. Michx. f. Arb. Am. 3. 99, t. **7.** Bonpl. Pl. Malm. 84, t. **33.** Pursh, 381. Nutt. Genera, 2. 18; Sylva, 1. 83. DC. Syst. 1. 454; Prodr. 1. 80. Bot. Mag. t. **2189.** Elliott, 2. 40. Spreng. Syst. 2. 642. Raf. Med. Bot. 2. 31, f. **62.** Don, Mill. 1. 83. Croom, Am. Jour. Sci. 1. 25. 76. "Reich. Fl. Exot. 2. 44, t. **139.**" Torr. & Gray, Fl. 1. 43. Spach, Hist. Veg. 7. 479. Dietr. Syn. 3. 308. Loud. Arbor. 1. 271, t. **6.** Curtis, Bot. N. Car. 67. Chapman, 14. Gray, Manual, 49. Wood, Bot. & Fl. 25.

M. Umbrella. Lam. Dict. 3. 673. Nouv. Duham. 2. 221. DC. Syst. 1. 452; Prodr. 1. 80. "Loisel. Herb. Amat. 3 t. **198.**" Spreng. Syst. 2. 642. Don, Mill. 1. 83. Torr. & Gray, Fl. 1. 43. Spach, Hist. Veg. 7. 475. Dietr. Syn. 3. 308. Gray, Genera, 1. 62, t. **24**; Jour. Linn. Soc. 2. 106, f. **1–18.** Manual, 49. Curtis, Bot. N. Car. 67. Chapman, 13.

M. Virginiana, var. *δ. tripetala.* Linn. Spec. 536.

M. tripetala. Linn. Spec. 2 ed. 756. Marsh. Arbust. 84. Walt. Fl. Car. 159. Ait. Hort. Kew. 2. 252. Willd. Spec. 2. 1258. Michx. Fl. 1. 327. Michx. f. Arb.

Am. 3. 90, **t. 5.** Pursh, 381. Guimp. Otto & Hayne, **t. 18.** Elliott, 2. 38. Loud. Arbor. 1. 269, **t. 5.**

M. frondosa. Salisb. Prodr. 379.

SCHIZANDRA coccinea. Michx. Fl. 2. 219, **t. 47.** Poir. Dict. 6. 729; Ill. 3. 710, t. **995.** Willd. Spec. 4. 372. "Desf. Hist. Arb. 2. 25." Bot. Mag. **t. 1413.** Ait. f. Hort. Kew. 5. 268. Pursh, 382. Nutt. Genera, 2. 209. DC. Syst. 1. 544; Prodr. 1. 104. Bart. Fl. N. Am. **t. 13.** Elliott, 2. 582. Spreng. Syst. 1. 972. Audubon, Birds, **t. 74.** Don, Mill. 1. 101. Torr. & Gray, Fl. 1. 44 & 662. Spach, Hist. Veg. 8. 11. Dietr. Syn. 2. 1037. Loud. Arbor. 1. 295, **f. 41.** Gray, Genera, 1. 58, **t. 22.** Chapman, 13. Wood, Cl. Book, 216; Bot. & Fl. 25. Maout & Decne. 378, **figs.** Baill. Hist. Pl. 1. 146, **f. 179–181.**

ANONACEÆ.

ASIMINA grandiflora. Dunal, Monog. Anon. 84, **t. 11.** "Loisel. Herb. Amat. 4, t. **263.**" DC. Syst. 1. 480; Prodr. 1. 86. Elliott, 2. 42. Spreng. Syst. 2. 639. Don, Mill. 1. 92. Dietr. Syn. 3. 304. Loud. Arbor. 1. 294. Chapman, 15. Wood, Cl.-Book, 215; Bot. & Fl. 26.

Annona grandiflora. Bartr. Trav. 20 & 171, **t. 2.**

Annona obovata. Willd. Spec. 2. 1269.

Orchidocarpum grandiflorum. Michx. Fl. 1. 330.

Porcelia grandiflora. Persoon, 2. 95. Pursh, 383. Poir. Suppl. 4. 529. Nutt. Genera, 2. 19.

Uvaria obovata. Torr. & Gray, Fl. 1. 45.

A. parviflora. Dunal, Monog. 82, **t. 9.** DC. Syst. 1. 479; Prodr. 1. 87. Elliott, 2. 41. Spreng. Syst. 2. 639. Don, Mill. 1. 91. Hook. Jour. Bot. 1. 188. Dietr. Syn. 3. 304. Loud. Arbor. 1. 293. Curtis, Bot. N. Car. 94. Chapman, 15. Wood, Cl.-Book, 215; Bot. & Fl. 26.

Orchidocarpum parviflorum. Michx. Fl. 1. 329.

Porcelia parviflora. Persoon, 2. 95. Pursh, 383. Poir. Suppl. 4. 529.

Uvaria parviflora. Torr. & Gray, Fl. 1. 45.

A. pygmæa. Dunal, Monog. 84, **t. 10.** DC. Syst. 1. 480; Prodr. 1. 87. Elliott, 2. 43. Spreng. Syst. 2. 639. Don, Mill. 1. 92. Dietr. Syn. 3. 304. Loud. Arbor. 1. 294, **f. 40.** Chapman, 15. Wood, Cl.-Book, 216; Bot. & Fl. 26.

Annona pygmæa. Bartr. Trav. 18, **t. 1.** Willd. Spec. 2. 1268.

Orchidocarpum pygmæum. Michx. Fl. 1. 330.

Porcelia pygmæa. Persoon, 2. 95. Pursh, 383. Poir. Suppl. 4. 529. Nutt. Genera, 2. 19.

Uvaria pygmæa. Torr. & Gray, Fl. 1. 45.

A. triloba. Dunal, Monog. 83. DC. Syst. 1. 479; Prodr. 1. 87. Elliott, 2. 42. Guimp. Otto & Hayne, **t. 53.** Spreng. Syst. 2. 639. Torrey, Ann. Lyc. N. Y. 2. 165. Don, Mill. 1. 91. Nutt. Jour. Acad. Philad. 7. 11. Dietr. Syn. 3. 304. Loud. Arbor. 1. 293, **f. 39.** Gray, Genera, 1. 68, **t. 26, 27**; Struct. Bot. 382, **f. 654–658**; Manual, 50. Parry, Pl. Minn. 609. Curtis, Bot. N. Car. 94. Lesqx. Fl. Ark. 347. Chapman, 15. Maout & Decne. 384, **figs.** Hook. Bot. Mag. **t. 5854.**

Annona triloba. Linn. Spec. 537. Marsh. Arbust. 10. Lam. Dict. 2. 125. Walt. Fl. Car. 158. Ait. Hort. Kew. 2. 254. Willd. Spec. 2. 1267. Nouv. Duham. 2. 83, **t. 25.** Michx. f. Arb. Am. 3. 161, **t. 9.** Schkuhr, Handb. 2. 95, **t. 149.**

Orchidocarpum arietinum. Michx. Fl. 1. 329.

Porcelia triloba. Persoon, 2. 95. Pursh, 383. Poir. Suppl. 4. 529. Audubon, Birds, **t. 2** & **162.**

Uvaria triloba. Torr. & Gray, Fl. 1. 45. Torr. Fl. N. Y. 1. 30. Baill. Hist. Pl. 1. 193, **f. 220–228.**

Asimina campaniflora (and *conoidea* ?). Spach, Hist. Veg. 7. 529.

ANONA glabra. Linn. Spec. 537. Marsh. Arbust. 10; and others. Not in the United States, f. Torr. & Gray, Fl. 1. 44, and suppressed by Grisebach, Fl. Br. W. Ind. 5.

A. laurifolia. Dunal, Monog. 65. DC. Syst. 1. 468; Prodr. 1. 84. Spreng. Syst. 2. 641. Lindl. Bot. Reg. 16, **t. 1328.** Griseb. Fl. Br. W. Ind. 4. Cooper, Smithson. Rep. 1860, 439.

MENISPERMACEÆ.

CALYCOCARPUM Lyoni. Nutt. in Torr. & Gray, Fl. 1. 48. Gray, Genera, 1. 76, **t. 30**; Manual, 52. Miers, Monog. Menisp. in Ann. Sci. Nat. 3. 13. 130; Contrib. Bot. 3. 25, **t. 89.** Walp. Ann. 2. 20. Chapman, 16.

Menispermum Lyoni. Pursh, 371. Poir. Suppl. 5. 731. DC. Syst. 1. 541; Prodr. 1. 103. James, Long's Exp. 1. 317 & 3. 33. Spreng. Syst. 2. 157. Torrey, Ann. Lyc. N. Y. 2. 165. Don, Mill. 1. 112. Torr. & Gray, Fl. 1. 48. Baill. Hist. Pl. 3. 13 & 39.

COCCULUS Carolinus. DC. Syst. 1. 524; Prodr. 1. 98. Don, Mill. 1. 107. Hook. Jour. Bot. 1. 188. Torr. & Gray, Fl. 1. 47. Loud. Arbor. 1. 298, **f. 45.** Gray, Genera, 1. 72, **t. 28**; Pl. Wright, 1. 7 & 2. 9; Manual, 16; Hall's Pl. Tex. 3. Engelm. & Gray, Pl. Lindh. 3 & 31. Seem. Bot. Herald, 268. Torrey, Mex. Bound. 30. Curtis, Bot. N. Car. 118. Chapman, 51. Miers, Contrib. Bot. 3. 253, **t. 110.** Baill. Hist. Pl. 3. 2, **f. 2–4.**

Menispermum Carolinum. Linn. Spec. 340. Marsh. Arbust. 86. Ait. Hort. Kew. 3. 412. Lam. Dict. 4. 97. Willd. Spec. 4. 825. Michx. Fl. 2. 242. Spreng. Syst. 2. 156.

M. Caroliniana. Hill, Veg. Syst. 16, **t. 27, f. 1.** Walt. Fl. Car. 248.

Baumgartia scandens. Moench, Meth. 650.

Androphylax scandens. Wendl. Bot. Beobacht. 38; "Hort. Herrenh. 3, **t. 16.**"

Wendlandia populifolia. Willd. Spec. 2. 275. Poir. Dict. 8. 796. Persoon, 1. 400. Pursh, 252.

W. Caroliniana. Nutt. Genera, 1. 241. Curtis in Bost. Jour. Nat. Hist. 1. 118.

Cocculidium populifolium. Spach, Hist. Veg. 8. 17.

Var. **hederaceæfolius.** Miers, Contrib. Bot. 3. 254.

Menispermum Virginicum. Linn. Spec. 340. Marsh. Arbust. 86. Walt. Fl. Car. 248. Lam. Dict. 4. 95. Willd. Spec. 4. 824. Ait. f. Hort. Kew. 5. 404. Maout & Decne. 372, **figs.**

C. oblongifolius. DC. Syst. 1. 529; Prodr. 1. 99. Don, Mill. 1. 108. Presl, Rel. Hænk. 2. 79. Seem. Bot. Herald, 268. Miers, Contrib. Bot. 3. 256.

C. sagittæfolius. Miers, Contrib. Bot. 3. 255.

MENISPERMUM Canadense. Linn. Spec. 340. Hill, Veg. Syst. 16, **t. 28, f. 2.** Medicus, Bot. Beob. 1782, 237. Marsh. Arbust. 86. Ait. Hort. Kew. 3. 411. Lam. Dict. 4. 95; Ill. 3. 412, **t. 824.** Michx. Fl. 2. 241. Willd. Spec. 4. 824.

Pursh, 370. Bot. Mag. **t. 1910.** DC. Syst. 1. 540; Prodr. 1. 102. Schkuhr, Handb. 3, **t. 337.** James, Long's Exp. 1. 317. Elliott, 2. 715. Spreng. Syst. 2. 157. Hook. Fl. Bor.-Am. 1. 28. Don, Mill. 1. 112. Torr. & Gray, Fl. 1. 48; Pac. R. Rep. 2. 125. Spach, Hist. Veg. 8. 20, **t. 62, f. 2.** Torrey, Fl. N. Y. 1. 31; Nicol. Rep. 144; Frem. Rep. 87; Emory's Rep. 406. Loud. Arbor. 1. 296, **f. 42.** Emerson, Mass. Trees, 525. Gray, Genera, 1. 74, **t. 29**; Pac. R. Rep. 12. 40; Struct. Bot. 383, **f. 659-666**; Manual, 51. Parry, Pl. Minn. 609. Schnizl. Icon. **t. 172, f. 1-15.** Curtis, Bot. N. Car. 118. Chapman, 16. Pl. Bourgeau, 254. Miers, Contrib. Bot. 3. 115. Maout & Decne. 372, **figs.**

Cissampelos Smilacina. Linn. Spec. 2 ed. 1473. Ait. Hort. Kew. 3. 416. Jacq. Coll. 4. 128; Icon. Rar. 3. 20, **t. 629.** Willd. Spec. 4. 863.

Menispermum angulatum. Moench, Meth. 277.

M. smilacinum. DC. Syst. 1. 541; Prodr. 1. 103. Elliott, 2. 716. Don, Mill. 1. 112. Loud. Arbor. 1. 297, **f. 44.**

BERBERIDACEÆ.

ACHLYS triphylla. DC. Syst. 2. 35; Prodr. 1. 112. Hook. Fl. Bor.-Am. 1. 30, **t. 12.** Don, Mill. 1. 120. Torr. & Gray, Fl. 1. 53; Bot. Wilkes, 219. Newberry, Pac. R. Rep. 6. 66. Cooper, same, 12. 56. Boland. Cat. 4. Gray, Proc. Am. Acad. 8. 376.

Leontice triphylla. Smith, Rees Cyc. n. 5. Schult. Syst. 7. 21. Dietr. Syn. 2. 1073.

BERBERIS Aquifolium. Pursh, **t. 4, f. 1** (leaf). Hook. Fl. Bor.-Am. 1. 29. Schult. Syst. 7. 18 & 1616. Lindl. Bot. Reg. **t. 1425**; Jour. Hort. Soc. 5. 16 (Fl. des Serres, 6. 77). Lodd. Bot. Cab. **t. 1718.** Don, Mill. 1. 118. Schrad. in Linn. 12. 388. Spach, Hist. Veg. 8. 51. Hook. & Arn. Bot Beechey, 134 & 318. Torrey, Pac. R. Rep. 4. 63; Bot. Wilkes, 218. Cooper, Pac. R. Rep. 12. 30 & 55. Wood, Cl.-Book, 218; Bot. & Fl. 27. Boland. in Proc. Calif. Acad. 3. 78; Cat. 4. Brew. & Wats. Bot. Calif. 1. 14. See under *B. repens.*

Mahonia fascicularis. DC. Syst. 1. 19, and others, as to Nootka locality.

M. aquifolium, β. Nutkana. DC. Prodr. 1. 109.

Berberis pinnata. Ker, Bot. Reg. **t. 702**; not Lag. Hook. Fl. Bor.-Am. 1. 28. Schrad. in Linnæa, 12. 387.

B. fascicularis. Sims, Bot. Mag. **t. 2396.** Spreng. Syst. 2. 120. Schult. Syst. 7. 17 & 1615.

Mahonia diversifolia. Sweet, Brit Fl. Gard. 2 ser. **t. 94.**

Berberis Aquifolium, vars. β. & γ. Torr. & Gray, Fl. 1. 50.

Mahonia Aquifolium. Paxton, Mag. Bot. 9. 5, & **t.** Loud. Arbor. 1. 309, **f. 57.**

B. Canadensis. Pursh, 219. Nutt. Genera, 1. 216. Elliott, 1. 412. DC. Syst. 2. 7; Prodr. 1. 106. Spreng. Syst. 2. 119. Schult. Syst. 7. 3. Don, Mill. 1. 115, in part. Audubon, Birds, **t. 188.** Torr. & Gray, Fl. 1. 50. Dietr. Syn. 2. 1071. Loud. Arbor. 1. 303, **f. 48.** Gray, Genera, 1. 80, **t. 31**; Manual, 53. Curtis, Bot. N. Car. 84. Chapman, 17.

B. vulgaris. Walter, 120. Michx. Fl. 1. 205.

B. vulgaris, var. *Canadensis.* Ait. Hort. Kew. 1. 479. Willd. Spec. 2. 227. Nouv. Duham. 4. 12. Desf. Arb. 2. 27. Poir. Dict. 8. 616. Wood, Cl.-Book, 218.

B. Canadensis, serrulata & *pisifera.* Raf. Fl. Tellur. 68.

B. vulgaris, var. *cratægina*. Hook. f. & Thomp. Fl. Ind. 1. 220, with syn.
B. vulgaris, var. *commutata*. Regel, Act. Hort. Petrop. 2. 413, with syn.
B. Sinensis, & var. *Canadensis*. Regel, l. c. 2. 416, with syn.

B. Fendleri. Gray, Pl. Fendl. 5. Walp. Ann. 2. 23. Torrey, Pac. R. Rep. 4. 64. Brandegee, Fl. S. W. Col. 233.

B. Fremonti. Torrey, Mex. Bound. 30. Gray, Ives's Rep. 5. Watson, King's Rep. 5. 416. Parry, Am. Naturalist, 9. 141 & 268.
B. trifoliata. Torrey, Pac. R. Rep. 4. 63, in part.

B. nervosa. Pursh, 219, **t. 5**, excl. fls. Poir. Suppl. 5. 480. Spreng. Syst. 2. 120. Schult. Syst. 7. 18 & 1616. Hook. Fl. Bor.-Am. 1. 29. Sweet, Br. Fl. Gard. 2 ser. **t. 171**. Torr. & Gray, Fl. 1. 51. Spach, Hist. Veg. 8. 54. Eat. & Wr. 156. Dietr. Syn. 2. 1072. Bot. Mag. **t. 3949**. Fl. des Serres, 2, **t. 4**. Cooper, Pac. R. Rep. 12. 56. Torrey, Bot. Wilkes, 218. Brew. & Wats. Bot. Calif. 1. 15.
Mahonia nervosa. Nutt. Genera, 1. 212. DC. Syst. 2. 20; Prodr. 1. 108. Don, Mill. 1. 118. Loud. Arbor. 1. 310, **f. 58**.
M. glumacea. DC. Syst. 1. 21; Prodr. 1. 109. Paxton, Mag. Bot. 7. 55, & **t.**
Berberis glumacea. Spreng. Syst. 2. 120. Schult. Syst. 7. 19. Lindl. Bot. Reg. **t. 1426**. Lodd. Bot. Cab. **t. 1701**. Dietr. Syn. 2. 1072. Lindl. Journ. Hort. Soc. 5. 18 (Fl. des Serres, 6. 77). Newberry, Pac. R. Rep. 6. 66. The Garden, 5. 34.

B. pinnata. Lagasca, Elench. Pl. Matr. 1803, 6; Gen. & Spec. 14. Torr. & Gray, Fl. 1. 51. Spach, Hist. Veg. 8. 50. Torrey, Emory's Rep. 136; Sitgr. Rep. 155; Pac. R. Rep. 4. 63. Benth. Pl. Hartw. 296. Gray, Pl. Thurb. 300. Boland. Cat. 4. Brew. & Wats. Bot. Calif. 1. 15.
Mahonia fascicularis. DC. Syst. 2. 19, & Prodr. 1. 108, in part. Deless. Icon. Sel. 2. 2, **t. 3** ?

B. repens. Lindl. Bot. Reg. **t. 1176**; Journ. Hort. Soc. 5. 17 (Fl. des Serres, 6. 77). Lodd. Bot. Cab. **t. 1847**. Spach, Hist. Veg. 8. 53. Brew. & Wats. Bot. Calif. 1. 14. The Garden, 5. 34.
B. Aquifolium. Pursh, 219, **t. 4**, excl. f. 5 & leaf. Poir. Suppl. 5. 480. DC. Syst. 2. 20. Spreng. Syst. 2. 120. Torr. & Gray, Fl. 1. 50, excl. vars. Dietr. Syn. 2. 1072. Walp. Rep. 1. 103. Torrey, Frem. Rep. 87; Stansb. Rep. 383; Mex. Bound. 30. Hook. in Lond. Jour. Bot. 6. 68. Gray, Pl. Fendl. 5; Ives's Rep. 5. Durand, Pl. Pratten. 80; Fl. Utah, 158. Newberry, Pac. R. Rep. 6. 66. Pl. Bourgeau, 254. Watson, King's Rep. 5. 15. Porter, Hayd. Rep. 1871, 478; Fl. Col. 5. Coulter, Hayd. Rep. 1872, 759.
B. nervosa. Pursh, **t. 5** (fls.).
B. pinnata. Muhl. Cat. 2 ed. 36. Eaton, Manual, 5 ed. 134.
Mahonia Aquifolium. Nutt. Genera, 1. 212; Jour. Acad. Philad. 7. 11. James, Cat. 178. Torrey, Ann. Lyc. N. Y. 2. 165. DC. Prodr. 1. 108. Sweet, Br. Fl. Gard. 2 ser., under t. 94.
Odostemon Aquifolium. Raf. in Am. Mag. 1819, 192; Med. Fl. 2. 247.
Mahonia repens. Don, Mill. 1. 118. Loud. Arbor. 1. 311, **f. 59**.
Berberis Aquifolium, var. *repens*. Torrey, Pac. R. Rep. 4. 63. Gray, Am. Jour. Sci. 2. 33. 407; Jour. Acad. Philad. 1863, 57.

B. Swaseyi. Buckley in Young's Fl. Tex. 152.

B. trifoliolata. Moric. Pl. Nouv. Am. 113, **t. 69**. Walp. Ann. 1. 21. Gray, Pl. Lindh. 2. 142; Hall's Pl. Tex. 3. Engelm. in Wisliz. Rep. 25. Paxton, Fl. Gard. 2. 68, **f. 168**. Torr. & Gray, Pac. R. Rep. 2. 159. Torrey, Mex. Bound. 31.
B. trifoliata. Hartw.; Lindl. Bot. Reg. 27, Misc. 68, & 31, **t. 10**; Jour. Hort. Soc. 5. 14 (Fl. des Serres, 6. 76). Walp. Rep. 2. 749. Fl. des Serres, 1, **t. 56**.

B. ilicifolia & *Roemeriana*. Scheele, Linn. 21. 593 & 22. 154.

B. VULGARIS, Linn. See syn. in DC. Syst. 2. 5; Hook. f. & Thomp. Fl. Ind. 1. 220; Regel, Trud. Petr. Bot. Cada, 2. 410. — Bigel. Fl. Bost. 78. Hook. Fl. Bor.-Am. 1. 28. Torr. & Gray, Fl. 1. 49. Torrey, Fl. N. Y. 1. 33. Emerson, Mass. Trees, 521. Richards. Arct. Exped. 422. Gray, Struct. Bot. 384, f. **668–676**; Manual, 53.

B. Canadensis. Marsh. Arbust. 17. Raf. Med. Fl. 1. 82, f. **15**.

B. vulgaris, var. *Canadensis*. Torrey, Fl. U. S. 336.

B. crenulata, macracantha & *laxiflora*. Schrad. in Linn. 12. 362, 366 & 367.

CAULOPHYLLUM thalictroides. Michx. Fl. 1. 205, t. **21**. Persoon, 1. 387. Willd. Enum. 1. 372. Poir. Suppl. 2. 140. Pursh, 218. Nutt. Genera, 1. 210. Elliott, 1. 411. Barton, Fl. Phil. 1. 160. Darling. Fl. Cestr. 39. Raf. Med. Fl. 1. 97, f. **19**. Spach, Hist. Veg. 8. 69. Schnizl. Icon. t. **179** [a], f. **1–8**. Chapman, 17. Gray, Manual, 53. Maout & Decne. 377, figs.

Leontice thalictroides. Linn. Spec. 312. Ait. Hort. Kew. 1. 451. Lam. Dict. 3. 465. Willd. Spec. 2. 449. R. Br. in Trans. Linn. Soc. 12. 145, t. **7**. Smith, Rees Cyc. n. 4. DC. Syst. 2. 27; Prodr. 1. 110. Torrey, Fl. U. S. 336; Fl. N. Y. 1. 33; Nicol. Rep. 144. Lodd. Bot. Cab. t. **1473**. Spreng. Syst. 2. 121. Schult. Syst. 7. 22. Hook. Fl. Bor.-Am. 1. 29. Don, Mill. 1. 119, f. **32**. Darling. Fl. Cestr. 2 ed. 213. Torr. & Gray, Fl. 1. 52. Dietr. Syn. 2. 1073. Gray, Genera, 1. 82, t. **32**; Manual, 1 ed. 21. Parry, Pl. Minn. 609. Baill. Hist. Pl. 3. 54.

Leontopetalon thalictroides. Hill, Veg. Syst. 16, t. **26**, f. **3**.

DIPHYLLEIA cymosa. Michx. Fl. 1. 203, t. **19, 20**. Poir. Suppl. 2. 488. Sims, Bot. Mag. t. **1666**. Pursh, 218. Nutt. Genera, 1. 209. Elliott, 1. 411. DC. Syst. 2. 30; Prodr. 1. 110. Spreng. Syst. 2. 121. Schult. Syst. 7. 52. Decne. in Ann. Sci. Nat. 2. 2. 359. Don, Mill. 1. 120. Torr. & Gray, Fl. 1. 53. Dietr. Syn. 2. 1073. Gray, Am. Jour. Sci. 1. 42. 23 (Lond. Jour. Bot. 1. 230); Genera, 1. 84, t. **33**; Manual, 53. Chapman, 17. Agardh, Theor. Syst. t. **5**, f. **10**. Baill. Hist. Pl. 3. 60.

JEFFERSONIA diphylla. Persoon, 1. 418. Bot. Mag. t. **1513**. Poir. Suppl. 3. 136. Pursh, 268. Nutt. Genera, 1. 253. DC. Syst. 2. 35; Prodr. 1. 111. Torrey, Fl. U. S. 399; Fl. N. Y. 1. 34. Spreng. Syst. 2. 227. Don, Mill. 1. 121. Torr. & Gray, Fl. 1. 53. Lodd. Bot. Cab. t. **1036**. Dietr. Syn. 2. 1284. Gray, Genera, 1. 86, t. **34**; Manual, 54. Schnizl. Icon. t. **179** [a], f. **13–16**. Chapman, 18. Baill. Hist. Pl. 3. 60, f. **72, 73**.

Podophyllum diphyllum. Linn. Spec. 505. Hill, Veg. Syst. 16, t. **32**, f. **2**. Willd. Spec. 2. 1141. Poir. Dict. 5. 446. Ait. f. Hort. Kew. 3. 287.

Jeffersonia binata. Barton, Trans. Phil. Soc. 3. 342, & t.

J. Bartonis. Michx. Fl. 1. 237. Raf. Med. Fl. 2. 11, f. **55**.

J. lobata. Nutt. Jour. Acad. Philad. 7. 99. Raf. Med. Fl. 2. 11.

J. odorata. Raf. Med. Fl. 2. 11.

PODOPHYLLUM peltatum. Linn. Spec. 505. Hill, Veg. Syst. 16, t. **32**, f. **1**. Ait. Hort. Kew. 2. 223. Willd. Spec. 2. 1141. Michx. Fl. 1. 309. Poir. Dict. 5. 446; Lam. Ill. 3. 15, t. **449**. Tratt. Arch. 2, t. **99**; Obs. 2. 63. Pursh, 336. Bigel. Fl. Bost. 132; Med. Bot. 2. 34, t. **23**, & 3. 186. Bot. Mag. t. **1819**. Nutt. Genera, 2. 10. DC. Syst. 2. 34; Prodr. 1. 111. Elliott, 2. 14. Barton, Fl. Philad. 2. 9. Spreng. Syst. 2. 604. Audubon, Birds, t. **64**. Hook. Fl. Bor.-Am. 1. 31. Don, Mill. 1. 120, f. **33**. Lindl. Fl. Med. 13. Torr. & Gray, Fl. 1. 54 & 663. Spach, Hist. Veg. 8. 70. Dietr. Syn. 3. 261. Torrey, Fl. N. Y. 1. 35; Emory's Rep. 406. Gray, Genera, 1. 88, t. **35, 36**; Pac. R. Rep. 12. 40; Manual, 54; Am.

Naturalist, 1. 494. Parry, Pl. Minn. 609. Schnizl. Icon. t. **179** [a], f. **17–26**. Chapman, 18. Lesqx. Fl. Ark. 347. Baill. Hist. Pl. 3. 58, f. **70, 71**.

Anopodophyllum peltatum. Moench, Meth. 277.

P. callicarpum. Raf. Fl. Lud. 14; Med. Fl. 2. 69. DC. Syst. 2. 34; Prodr. 1. 111. Spreng. Syst. 2. 604. Don, Mill. 1. 121.

P. montanum. Raf. Med. Fl. 2. 59, f. **73**.

VANCOUVERIA hexandra. Morr. & Decne. Ann. Sci. Nat. 2. 2. 351. Torr. & Gray, Fl. 1. 52. Torrey, Pac. R. Rep. 4. 63; Bot. Wilkes, 219. Boland. Cat. 4. Gray, Proc. Am. Acad. 8. 375. Brew. & Wats. Bot. Calif. 1. 15.

Epimedium hexandrum. Hook. Fl. Bor.-Am. 1. 30, t. **13**. Don, Mill. 1. 120. Hook. & Arn. Bot. Beechey, 318. Baill. Hist. Pl. 3. 56.

Sculeria geminata. Raf. Fl. Tell. 2. 50.

NYMPHÆACEÆ.

BRASENIA peltata. Pursh, 389. Nutt. Genera, 2. 24; Fl. Ark. 160. Elliott, 2. 66. Gray, Ann. Lyc. N. Y. 4. 46; Genera, 1. 96, t. **39**; Struct. Bot. 387, f. **681–687**; Mem. Am. Acad. 2. 6. 449; Manual, 55. Torr. & Gray, Fl. 1. 55. Torrey, Fl. N. Y. 1. 36; Bot. Wilkes, 220. Dietr. Syn. 3. 291. Engelm. & Gray, Pl. Lindh. 32. Hook. f. & Thomp. Fl. Ind. 1. 246. Chapman, 19. Benth. Fl. Austr. 1. 60. Miquel, Ann. Mus. Lugd.-Bat. 3. 92. Welwitsch, Sert. Angol. 26. Boland. Cat. 4.

Menyanthes peltata & nymphoides. Thunb. Nov. Act. Ups. 7. 142, t. **4**, f. **2**, & Fl. Jap. 82.

Hydropeltis purpurea. Michx. Fl. 1. 324, t. **29**. Bot. Mag. t. **1147**. Ait. f. Hort. Kew. 3. 362. Poir. Suppl. 3. 78. Richard, Ann. Mus. Par. 17. 230, t. **5**, f. **22**. DC. Syst. 2 38; Prodr. 1. 112. Hook. Fl. Bor.-Am. 1. 31; Jour. Bot. 1. 189. Don, Mill. 1. 122, f. **34**. Spach, Hist. Veg. 7. 162. Schnizl. Icon. t. **186**, f. **2, 3, 19–25**.

Hydropeltis pulla. Salisb. in Ann. Bot. 2. 74.

Brasenia Hydropeltis. Muhl. Cat. 55. Raf. Med. Fl. 1. 90, f. **17**.

Villarsia peltata. Roem. & Schult. Syst. 4. 178.

Limnanthemum peltatum. Griseb. Gent. 348; DC. Prodr. 9. 141. Planch. in Ann. Sci. Nat. 4. 2. 257.

Brasenia nymphoides. Baill. Hist. Pl. 3. 82.

CABOMBA Caroliniana. Gray, Ann. Lyc. N. Y. 4. 46; Genera, 1. 94, t. **38**; Hall's Pl. Tex. 5. Torr. & Gray, Fl. 1. 55. Walp. Rep. 1. 105. Hook. Icon. t. **642**. Chapman, 19. Wood, Cl.-Book, 219; Bot. & Fl. 39. Maout & Decne. 401 & 402, figs. Ridgway, Am. Naturalist, 6. 726.

C. Aubletii. Michx. Fl. 1. 206.

Nectris peltata. Pursh, 239, excl. syn.

N. aquatica. Nutt. Genera, 1. 230, not Willd. Elliott, 1. 416.

Cabomba aquatica. DC. Syst. 2. 36. Schult. Syst. 7. 1378, and Don, Mill. 1. 121, in part. Hook. Jour. Bot. 1. 189.

NELUMBIUM luteum. Willd. Spec. 2. 1259. Michx. Fl. 1. 317. Turpin, Ann. Mus. Par. 7. 210, t. **11**, f. **27**. Poiteau, same, 13. 395, t. **29**, f. **42–46**. Poir. Suppl. 4. 78. DC. Syst. 2. 47; Prodr. 1. 114. James, Long's Exp. 2. 96. Torrey, Ann. Lyc. N. Y. 2. 165. Raf. Med. Fl. 2. 41, f. **66**. Don, Mill. 1. 124. Hook. Jour. Bot. 1. 189. Short, Pl. Kentucky, 339. Torr. & Gray, Fl. 1. 56. Bot. Mag.

t. 3753. Spach, Hist. Veg. 7. 183. Maund. Bot. 1, **t. 14.** Dietr. Syn. 3. 294. Torrey, Fl. N. Y. 1. 38. Gray, Genera, 1. 98, **t. 40, 41**; Manual, 55. Schnizl. Icon. **t. 187, f. 3-6, 9-14.** Chapman, 18. Engelm. Trans. Acad. St. Louis, 2. 136. Griseb. Fl. Br. W. Ind. 12. Maout & Decne. 402 & 403, **figs.** Young, Fl Tex. 153.

Nymphæa Nelumbo, var. *β*. Linn. Spec. 511.

Nymphæa Nelumbo. Walt. Fl. Car. 155. Ait. Hort. Kew. 2. 227, in part. Bartr. Trav. 107. Salisb. Ann. Bot. 2. 76.

Nymphæa pentapetala. Walt. Fl. Car. 155. Gmel. Syst. 812. Poir. Dict. 4. 458. Salisb. Ann. Bot. 2. 76.

Nelumbo Indica, var. *β*. Poir. Dict. 4. 454.

Nelumbium pentapetalum. Willd. Spec. 2. 1259. Poir. Suppl. 4. 78. DC. Syst. 2. 47; Prodr. 1. 114. Raf. Med. Fl. 2. 42. Don, Mill. 1. 124.

Cyamus flavicomus. Salisb. in Ann. Bot. 2. 75. Pursh, 398.

Nelumbium speciosum. Ait. f. Hort. Kew. 3. 332, in part.

Cyamus pentapetalus. Pursh, 398. Elliott, 2. 68.

Nelumbium codophyllum. Raf. Fl. Lud. 22; Med. Fl. 2. 42. DC. Syst. 2. 47; Prodr. 1. 114. Don, Mill. 1. 124. Trécul, Bull. Soc. Bot. Fr. 1. 18 & 60; Ann. Sci. Nat. 4. 1. 291, **t. 12-14.**

Cyamus luteus. Nutt. Genera, 2. 25; Fl. Ark. 160. Bart. Fl. Phil. 2. 26; Fl. N. Am. 2. 77, **t. 63.** James, Cat. 183. Elliott, 2. 67.

Nelumbium Jamaicense. DC. Syst. 2. 47; Prodr. 1. 114.

Nelumbo lutea. Baill. Hist. Pl. 3. 79, **f. 78-81.**

NUPHAR advena. Ait. f. Hort. Kew. 3. 295. Pursh, 369. Smith, Rees Cyc. n. 4. Nutt. Genera, 2. 13; Fl. Ark. 160. DC. Syst. 2. 63; Prodr. 1. 116. Elliott, 2. 8. Bart. Fl. Phil. 2. 10. Hook. Fl. Bor.-Am. 1. 33; Jour. Bot. 1. 189. Don, Mill. 1. 127. Torr. & Gray, Fl. 1. 58. Spach, Hist. Veg. 7. 176. Dietr. Syn. 3. 265. Torrey, Fl. N. Y. 1. 40; Mex. Bound. 31; Bot. Wilkes, 220. Benth. Pl. Hartw. 296. Gray, Genera, 1. 104, **t. 44**; Manual, 57. Parry, Pl. Minn. 609. Planch. in Fl. des Serres, 8. 120; Ann. Sci. Nat. 3. 19. 62. Newberry, Pac. R. Rep. 6. 67. Cooper, Pac. R. Rep. 12. 56. Chapman, 20. Pl. Bourgeau, 254. Engelm. in Trans. Acad. St. Louis, 2. 283. Traill, Canad. Fl. 71, **t. 8.** Boland. Cat. 4. Watson, King's Rep. 5. 13. Porter, Hayd. Rep. 1871, 478. Coulter, same, 1872, 759.

Nymphæa lutea. Walt. Fl. Car. 154.

Nymphæa advena. Ait. Hort. Kew. 2. 226. Poir. Dict. 4. 457. Willd. Spec. 2. 1152; Hort. Berol. **t. 38.** Michx. Fl. 1. 311. Bot. Mag. **t. 684.** Bigel. Fl. Bost. 132. Torrey, Nicol. Rep. 144.

Nymphæa arifolia. Salisb. in Ann. Bot. 2. 71.

Nuphar Americana. Provancher, Fl. Canad. 1. 28.

Var. **variegatum.** Engelm.; Gray, Manual, 57.

Nuphar variegatum. Engelm.; Clinton in 19 Rep. Reg. N. Y. State Univ. 73.

N. luteum, Smith. See syn. in DC. Syst. 2. 60; Ledeb. Fl. Ross. 1. 84; Hook. f. Arct. Pl. 313. — Pursh, 369. Richards. Frankl. Journ. 12. Hook. Fl. Bor.-Am. 1. 32. Bong. Sitch. 124. Torr. & Gray, Fl. 1. 57. Ledeb. l. c. Hook. f. Arct. Pl. 284 & 313. Rothr. Fl. Alask. 442. Gray, Manual, 57.

N. polysepalum. Engelm. in Trans. Acad. St. Louis, 2. 282. Gray, Proc. Am. Acad. 8. 376; Torr. Bot. Wilkes, 220. Porter, Fl. Col. 5.

N. pumilum. Smith, Engl. Bot. **t. 2292.** DC. Syst. 2. 61, with syn. Planch. in Fl. des Serres, 8. 120; Ann. Sci. Nat. 3. 19. 60, with syn. Regel, Fl. Uss. 18, and syn. Caspary, Ann. Mus. Lugd.-Bat. 2. 256.

Nymphæa lutea, var. *Kalmiana*. Michx. Fl. 1. 311. Salisb. in Ann. Bot. 2. 76. Dietr. Syn. 3. 265.

Nymphæa microphylla. Persoon, 2. 63.

Nymphæa Kalmiana. Sims, Bot. Mag. t. **1243**. Poir. Suppl. 4. 81.

Nuphar Kalmiana. Ait. f. Hort. Kew. 3. 295. Pursh, 369. Smith, Rees Cyc. n. 3. Nutt. Genera, 2. 13. DC. Syst. 2. 61; Prodr. 1. 116. James, Long's Exp. 3. 127. Bart. Fl. Phil. 2. 11. Torrey, Fl. U. S. 218. Hook. Fl. Bor.-Am. 1. 32. Don, Mill. 1. 327. Spach, Hist. Veg. 7. 176. Gray, Manual, 2 ed. 23. Wood, Bot. & Fl. 29.

Nuphar lutea, var. *Kalmiana*. Torr. & Gray, Fl. 1. 58. Torrey, Fl. N. Y. 1. 40. Gray, Manual, 1 ed. 24.

Nuphar luteum, var. *pumilum*. Gray, Manual, 57.

N. sagittæfolium. Pursh, 370. Nutt. Genera, 2. 13. DC. Syst. 2. 62; Prodr. 1. 116. Elliott, 2. 8. Don, Mill. 1. 127. Torr. & Gray, Fl. 1. 58. Dietr. Syn. 3. 265. Planch. Fl. des Serres, 8. 120; Ann. Sci. Nat. 3. 19. 62. Chapman, 20. Wood, Cl.-Book, 221; Bot. & Fl. 39. Hook. f. Arct. Pl. 313.

Nymphæa sagittifolia. Walt. Fl. Car. 155. Gmel. Syst. 812. Poir. Dict. 4. 458. Salisb. in Ann. Bot. 2. 71.

Nymphæa longifolia. Michx. Fl. 1. 312. Poir. Suppl. 4. 81.

Nymphæa sagittata. Persoon, 2. 63.

Nuphar longifolia. Smith, Rees Cyc. n. 5.

NYMPHÆA ampla. DC. Syst. 2. 54, in part; Prodr. 1. 115. Hook. Bot. Mag. t. **4469**. Gray, Pl. Wright, 1. 7. Planch. Ann. Sci. Nat. 3. 19. 44, with syn. Lehm. Nymph. 5. Grisch. Fl. Br. W. Ind. 11.

N. elegans. Hook. Bot. Mag. t. **4604**. Gray, Pl. Wright. 1. 129. Planch. Fl. des Serres, 8. 120; Ann. Sci. Nat. 3. 19. 46. Lehm. Nymph. 8. Paxton's Fl. Gard. 2. 118.

N. Mexicana. Gray, Pl. Wright. 1. 7, not Zucc.

N. odorata. Ait. Hort. Kew. 2. 227. Poir. Dict. 4. 457. Willd. Spec. 2. 1153; Hort. Berol. t. **39**. Andr. Bot. Rep. 5. t **297**. Sims, Bot. Mag. t. **819**. Persoon, 2. 63. Pursh, 368. Bigel, Fl. Bost. 132; Med. Bot. 3. 134. t. **55**. DC. Syst. 2. 57; Prodr. 1. 116. Smith, Rees Cyc. n. 2. Elliott, 2. 7. Bart. Fl. Phil. 2. 11. Raf. Med. Fl. 2. 44, f. **67**. Hook. Fl. Bor.-Am. 1. 32; Jour. Bot. 1. 189. Don, Mill. 1. 126. Nutt. Fl. Ark. 165. Torr. & Gray, Fl. 1. 57. Spach, Hist. Veg. 7. 174. Dietr. Syn. 3. 264. Torrey, Fl. N. Y. 1. 39. Gray, Genera, 1. 102, t. **42**, **43**; Struct. Bot. 386, f. **677–680**; Manual, 56. Parry, Pl. Minn. 609. Planch. Fl. des Serres, 8. 120; Ann. Sci. Nat. 3. 19. 52. Lehm. Nymph. 13. Chapman, 19. Caspary, Ann. Mus. Bot. Lugd.-Bat. 2. 250. Traill, Canad. Fl. 67, t. **8**. Hall, Torr. Bull. 4. 39.

Nymphæa alba. Walt. Fl. Car. 155. Michx. Fl. 1. 311.

Castalia pudica. Salisb. in Hook. Parad. Lond. under t. 14 (Ann. Bot. 2. 72).

Var. **reniformis**. Torr. & Gray, Fl. 1. 57. Lehm. Nymph. 13.

Nymphæa reniformis. Walter, 155. Gmel. Syst. 812. Poir. Dict. 4. 458. Salisb. in Ann. Bot. 2. 76.

Nelumbium reniforme. Willd. Spec. 2. 1260. Poir. Suppl. 4. 79. Caspary, l. c. 2. 251.

Cyamus reniformis. Pursh, 398. Elliott, 2. 68.

Var. **minor**. Sims, Bot. Mag. t. **1652**. Torr. & Gray, Fl. 1. 57. Paine, Cat. Pl. Oneida, 183. Gray, Manual, 56. Macoun & Gibson, Trans. Edinb. 12. 310.

Nymphæa odorata, var. *rosea*. Pursh, 369.

N. minor. DC. Syst. 2. 58; Prodr. 1. 116. Hook. Fl. Bor.-Am. 1. 32. Don, Mill. 1. 126.

? *N. rosea.* Raf. Med. Fl. 2. 45.

N. tuberosa. Paine, Cat. Pl. Oneida, 184 (Bull. Soc. Bot. Fr. 14, Rev. Bibl. 55). Gray, Manual, 56. Hall, Torr. Bull. 4. 39. Macoun & Gibson, l. c.

N. alba. Nutt. Genera, 2. 13.

? *N. reniformis.* DC. Syst. 2. 55; Prodr. 1. 115, not Walt? Deless. Icon. Sel. 2. 3. **t. 5.** Don, Mill. 1. 126.

? *N. maculata* & *spiralis.* Raf. Med. Fl. 2. 45.

SARRACENIACEÆ.

DARLINGTONIA Californica. Torrey, Smithson. Contrib. 6. 4, **t. 1**; Torr. Bull. 2. 14; Am. Naturalist, 5. 307; Bot. Wilkes, 221. Gray, Am. Jour. Sci 2. 16. 425 & 2. 35. 136. Walp. Ann. 4. 169. Planch. Fl. des Serres, 14. 125, **t. 1440, 1441.** Maout & Decne. 407, **figs.** Moore, Fl. Mag. 1869, **t. 457.** Morren, Belg. Hortic. 5. 113, **t. 18.** Thurber, Am. Agric., Mar. 1870, **fig.** Hook. Bot. Mag. **t. 5920.** Masters, Gard. Chron. 1871, 835, **f. 171.** André, Ill. Hort. 18. 156, **t. 75.** Baill. Hist. Pl. 3. 92. A. DC. Prodr. 17. 3. A. Braun, Sitz.-Ber. Gesell. Berlin, 1873, 73.

SARRACENIA Drummondii. Croom, Ann. Lyc. N. Y. 4. 100, **t. 6.** Torr. & Gray, Fl. 1. 59. Walp. Rep. 1. 108. Dietr. Syn. 3. 260. Decne. in Fl. des Serres, 7. 268. Chapman, 21. Baill. Hist. Pl. 3. 90, **f. 102.** A. DC. Prodr. 17. 5. Gray, Am. Jour. Sci. 3. 6. 467.

? *S. leucophylla.* Raf. Fl. Lud. 14. Spreng. Syst. 2. 600.

S. Gronovii, var. *Drummondii.* Wood, Cl.-Book, 222; Bot. & Fl. 30.

S. flava. Linn. Spec. 510. Hill, Veg. Syst. 15, **t. 17, f. 2.** Walt. Fl. Car. 153. Ait. Hort. Kew. 2. 225. Willd. Spec. 2. 1150. Michx. Fl 1. 310. Andr. Bot. Rep. 6, **t. 381.** Sims, Bot. Mag. **t. 780.** Poir. Dict. 6. 545. Persoon, 2. 62. Pursh, 367. Elliott, 2. 10. Spreng. Syst. 2. 600. Audubon, Birds, **t. 300** & **401.** Don, Mill. 1. 128. Lodd. Bot. Cab. **t. 1957.** Paxton's Mag. Bot. 1. 56 & **t.** Hook. Jour. Bot. 1. 190. Croom, Ann. Lyc. N. Y. 4. 103; Am. Jour. Sci. 1. 28. 167. Torr. & Gray, Fl. 1. 59 Dietr. Syn. 3. 260. Spach, Hist. Veg. 13. 331. Decne. in Fl. des Serres, 7. 266. Rev. Hort. 1. 121, **t. 7.** Lemaire, Ill. Hort. 2, **t. 63,** & 14, Misc. 37. Planch. Fl. des Serres, 10. 233, **t. 1068.** Chapman, 21. Regel, Gart. Fl. 16. 259, **t. 554.** Gray, Manual, 58; Am. Jour. Sci. 3. 6. 149 & 467. A. DC. Prodr. 17. 5.

S. Catesbei. Elliott, 2. 11. Spach, Hist. Veg. 13. 331.

S. Gronovii, a. Wood, Cl.-Book, 222; Bot. & Fl. 30.

S. psittacina. Michx. Fl. 1. 311. Poir. Dict. 6. 546. Persoon, 2. 62. Pursh, 368 Elliott, 2. 10. Hook. Jour. Bot. 1. 190. Croom, Ann. Lyc. N. Y. 4. 101. Torr. & Gray, Fl. 1. 59. Walp. Rep. 1. 108. Dietr. Syn. 3. 260. Spach, Hist. Veg. 13. 330. Decne. in Fl. des Serres, 7. 268. Chapman, 20. Wood, Cl.-Book, 221; Bot. & Fl. 30. Masters, Gard. Chron. 1866, 1218 & **fig.** (Ill. Hort. 14, Misc. 37 & **fig.**). A. DC. Prodr. 17. 4.

S. calceolata. Nutt. in Trans. Am. Phil. Soc. 2. 4. 49, **t. 1.**

S. pulchella. Croom, Am. Jour. Sci. 1. 25. 75, 26. 317 & 28. 167.

S. purpurea. Linn. Spec. 510. Hill, Veg. Syst. 15, **t. 17, f. 1.** Walt. Fl. Car. 152. Ait. Hort. Kew. 2. 226. Willd. Spec. 2. 1150. Michx. Fl. 1. 310. Poir.

Dict. 6. 545; Lam. Ill. 3. 16, **t. 452.** Sims, Bot. Mag. **t. 849.** Persoon, 2. 62. Barton, Elem. Bot. Appx. 17, **t. 1.** Pursh, 367. Nutt. Genera, 2. 11. Lodd. Bot. Cab. **t. 308.** Richards. Frankl. Journ. 12. Elliott, 2. 9. Spreng. Syst. 2. 600. De La Pyl. in Ann. Linn. Soc. Par. 6. 388, **t. 13.** Hook. Fl. Bor.-Am. 1. 33. Don, Mill. 1. 128. Audubon, Birds, **t. 202.** Croom, Ann. Lyc. N. Y. 4. 98. Paxton's Mag. Bot. 3. 221 & **t**; Fl. Gard. 2. 24, **f. 146.** Torr. & Gray, Fl. 1. 59. Dietr. Syn. 3. 260. Torrey, Fl. N. Y. 1. 41. Spach, Hist. Veg. 13. 329. Gray, Genera, 1. 108, **t. 45, 46**; Manual, 58. Decne. in Fl. des Serres, 7. 268. Planch. in same, 10. 247, **t. 1076.** Schnizl. Icon. **t. 185*.** Chapman, 20. Hook. f. Arct. Pl. 284. Regel, Gart. Fl. 16. 130, **t. 542.** Maout & Decne. 407, **figs.** Traill, Canad. Fl. 73, **t. 9.** Baill. Hist. Pl. 3. 91, **f. 104–107.** A. DC. Prodr. 17. 4.

Var. **heterophylla.** Torrey, Compend. 217; Fl. N. Y. 1. 41, **t. 6.** Gray, Manual, 1 ed. 25. Gillman, Am. Naturalist, 4. 43.

S. heterophylla. Eaton, Manual, 4 ed. 447.

Var. **alata.** Wood, Bot. & Fl. 30.

S. rubra. Walt. Fl. Car. 152. Willd. Spec. 2. 1150. Poir. Dict. 6. 547. Persoon, 2. 62. Ait. f. Hort. Kew. 3. 291. Elliott, 2. 10. Spreng. Syst. 2. 600. Don, Mill. 1. 128. Croom, Ann. Lyc. N. Y. 4. 99. Torr. & Gray, Fl. 1. 59. Dietr. Syn. 3. 260. Spach, Hist. Veg. 13. 330. Decne. in Fl. des Serres, 7. 268. Chapman, 21. A. DC. Prodr. 17. 4.

S. Gronovii, var. *rubra.* Wood, Cl.-Book, 222; Bot. & Fl. 30.

Var. **acuminata.** A. DC. Prodr. 17. 4.

S. rubra. Hook. Exot. Fl. **t. 13**; Bot. Mag. **t. 3515.** Lodd. Cab. **t. 1163.**

S. Sweetii. A. DC. Prodr. 17. 5.

S. minor. Sweet, Brit. Fl. Gard 2 ser. **t. 138.** Paxt. Mag. Bot. 16. 47, & **fig.**

S. rubra. Planch. in Fl. des Serres, 10. 243, **t. 1074.**

S. undulata. Decne. in Rev. Hort. 1. 126 (Fl. des Serres, 6. 267). A. DC. Prodr. 17. 5.

S. Drummondii. Paxton's Fl. Gard. 1. 1, **t. 1.** Planch. Fl. des Serres, 6. 81, **t. 560**, & 10. 239, **t. 1071.** Moore, Fl. Mag. **t. 208.**

S. variolaris. Michx. Fl. 1. 310. Poir. Dict. 6. 546. Persoon, 2. 62. Pursh, 367. Sims, Bot. Mag. **t. 1710.** Elliott, 2. 12. Lodd. Bot. Cab. **t. 803.** Spreng. Syst. 2. 600. Don, Mill. 1. 128. Croom, Ann. Lyc. N. Y. 4. 102. Torr. & Gray, Fl. 1. 59. Dietr. Syn. 3. 260. Spach, Hist. Veg. 13. 330. Decne. in Fl. des Serres, 6. 267. Chapman, 21. Wood, Cl.-Book, 221; Bot. & Fl. 30. Baill. Hist. Pl. 3. 90, **f. 103.** A. DC. Prodr. 17. 6.

S. minor. Walt. Fl. Car. 153? Willd. Spec. 2. 1150. Persoon, 2. 62. Spach, Hist. Veg. 13. 330.

? *S. lacunosa.* Bartr. Trav. 417.

S. adunca. Smith, Exot. Bot. 1. 103, **t. 53.** Ait. f. Hort. Kew. 3. 291. Macbride, Trans. Linn. Soc. 12. 48

PAPAVERACEÆ.

ARCTOMECON Californicum. Torrey, Frem. Rep. 312, **t. 2** (Bot. Zeit. 5. 40). Walp. Ann. 1. 22. Duchartre, Revue Bot. 2. 52. Benth. & Hook. Genera, 1. 52.

ARGEMONE fruticosa. Thurb.; Gray, Pl. Thurb. 306. Torrey, Mex. Bound. 31.

A. hispida. Gray, Pl. Fendl. 5. Torrey, Stansb. Rep. 383; Pac. R. Rep. 7. 7. Walp. Ann. 2. 25. Durand, Fl. Utah, 158.

A. munita. Dur. & Hilg. Pl. Heerm. in Jour. Acad. Philad. 2. 3. 37; Pac. R. Rep. 5. 5, **t. 1.** Walp. Ann, 4. 170 & 7. 85.

A. Mexicana. Engelm. Wisliz. Rep. 3. Torrey, Pac. R. Rep. 5. 359. Anderson, Cat. Fl. Nev. 117. Porter, Hayd. Rep. 1870, 473.

A. Mexicana, var. *hispida.* Torrey, Mex. Bound. 31. Watson, King's Rep. 5. 13. Coulter, Hayd. Rep. 1872, 759.

A. Mexicana. Linn. Spec. 508. See syn. in DC. Syst. 2. 85.—Pursh, 366. Nutt. Genera, 2. 9. James, Catalogue, 183. Elliott, 2. 13. Hook. Jour. Bot. 1. 189. Torr. & Gray, Fl. 1. 61; Pac. R. Rep. 159. Gray, Genera, 1. 112, **t. 47**; Pl. Fendl. 5; Manual, 59. Engelm. Wisliz. Rep. 28. Torrey, Emory's Rep. 406; Marcy's Rep. 280; Pac. R. Rep. 4. 64; Mex. Bound. 31. Scheele. Roemer's Texas, 436. Chapman, 21. Porter, Fl. Col. 6.

Var. **albiflora.** DC. Syst. 2. 86; Prodr. 1. 120. Torrey, Ann. Lyc. N. Y. 2. 166; Frem. Rep. 87. Torr. & Gray, Pac. R. Rep. 2. 125. Gray, same, 12. 40.

A. albiflora. Hornem. Hort. Hafn. 489. Bot. Mag. **t. 2342.**

A. alba. Raf. Fl. Lud. 83. James, Long's Exp. 2. 149.

A. grandiflora. Sweet, Brit. Fl. Gard. **t. 226.** Lindl. Bot. Reg. **t. 1264.**

A. Georgiana. Croom, Am. Jour. Sci. 1. 25. 75.

A. vulgaris, var. *albiflora.* Spach, Hist. Veg. 7. 26.

CHELIDONIUM MAJUS, Linn. Pursh, 365. Bigel. Fl. Bost. 210. Torr. & Gray, Fl. 1. 62. Torrey, Fl. N. Y. 1. 44. Gray, Manual, 60.

DENDROMECON rigidum. Benth. Trans. Hort. Soc. 2. 1. 407; Pl. Hartw. 296. Hook. Icon. **t. 37**; Bot. Mag. **t. 5134.** Torr. & Gray, Fl. 1. 64. Hook. & Arn. Bot. Beechey, 319. Eat. & Wr. 222. Dietr. Syn. 3. 224. Torrey, Pac. R. Rep. 4. 64 & 7. 7; Mex. Bound. 32, **t. 3**; Bot. Wilkes, 224. Belg. Hort. 10. 97, **t. 97, f. 1-3.** Fl. des Serres, 14. 43, **t. 1411.** Boland. in Proc. Calif. Acad. 3. 78; Cat. 4. Brew. & Wats. Bot. Calif. 1. 22.

D. Harfordii. Kellogg, Proc. Calif. Acad. 5. 102.

ESCHSCHOLTZIA Californica. Cham. in Nees, Hor. Phys. Berol. 73, t. **15.** Cham. & Schlecht. in Linn. 1. 554. DC. Prodr. 3. 344. Don, Mill. 1. 137, f. **41.** Maund, Bot. Gard. 7, **t. 298.** Hook. & Arn. Bot. Beechey, 134. Walp. Rep. 1. 116. Eat. & Wr. 194. Dietr. Syn. 3. 285. Benth. Pl. Hartw. 296. Gray, Pl. Thurb. 300; Ives' Rep. 5; Proc. Bost. Soc. Nat. Hist. 7. 145. Torr. & Gray, Pac. R. Rep. 2. 119. Torrey, same, 4. 64 & 7. 7; Mex. Bound. 31; Bot. Wilkes, 224. Newberry, Pac. R. Rep. 6. 67. Durand, Pl. Pratten. 80. Wood, Cl.-Book, 224; Bot. & Fl. 32. Maout & Deene, 410, **figs.** Anderson, Cat. Pl. Nev. 117. Boland. Cat. 4. Watson, King's Rep. 5. 13. Brew. & Wats. Bot. Calif. 1. 22.

E. crocea. Benth. Trans. Hort. Soc. 2. 1. 407. Lindl. Bot. Reg. **t. 1677.** Don; Sweet, Brit. Fl. Gard. 2 ser. **t. 299.** Hook. Bot. Mag. **t. 3495.** Paxton, Mag. Bot. 3. 42 & **t.** Spach, Hist. Veg. 7. 49. Dietr. Syn. 3. 286. Baill. Hist. Pl. 3. 119, **f. 138-140.**

Chryseis compacta. Lindl. Bot. Reg. **t. 1948.**

Omomoia Californica. Raf. Fl. Tellur. 2. 92.

C. crocea. Torr. & Gray, Fl. 1. 63. Eat. & Wr. 194.

C. Californica. Hook. & Arn. Bot. Beechey, 319. Torr. & Gray, Fl. 1. 664. Eat. & Wr. 194. Cooper, Pac. R. Rep. 12. 56.

Eschscholtzia compacta. Walp. Rep. 1. 116. Dietr. Syn. 3. 286.

Chryseis Californica, var. *albiflora.* Lindl. Journ. Hort. Soc. 7. 279.

Var. **Douglasii.** Gray, Field & Gard. Bot. 49. Brew. & Wats. l. c. 23.

E. Californica. Lindl. Bot. Reg. **t. 1168.** Sweet, Brit. Fl. Gard. **t. 265.** Hook. Bot. Mag. **t. 2887**; Fl. Bor.-Am. 1. 34. Lodd. Bot. Cab. **t. 1635.** Spach, Hist. Veg. 7. 48, **t. 140.**

Chryseis Californica. Torr. & Gray, Fl. 1. 63.

C. Douglasii. Hook. & Arn. Bot. Beechey, 320. Torr. & Gray, Fl. 1. 664. Cooper, Pac. R. Rep. 12. 56.

E. Douglasii. Benth. Pl. Hartw. 296. Walp. Rep. 1. 116. Torrey, Pac. R. Rep. 4. 64 & 7. 7; Mex. Bound. 31; Bot. Wilkes, 224. Newberry, Pac. R. Rep. 6. 66. Wood, Cl.-Book, 224; Bot. & Fl. 32.

E. Californica, var. *parvula.* Gray, Pl. Wright. 2. 10.

Var. **cæspitosa.** Brewer, Bot. Calif. 1. 23.

E. cæspitosa. Benth. Trans. Hort. Soc. 2. 1. 407. Walp. Rep. 1. 116. Dietr. Syn. 3. 286. Boland. Cat. 4.

E. tenuifolia. Benth. l. c. 408; Pl. Hartw. 296. Walp. Rep. 1. 116. Eat. & Wr. 194. Dietr. Syn. 3. 286. Hook. Bot. Mag. **t. 4812.** Gray, Proc. Bost. Soc. 7. 145.

Chryseis cæspitosa & *tenuifolia.* Torr. & Gray, Fl. 1. 64. Hook. & Arn. l. c.

E. Californica, var. *tenuifolia.* Torr. Pac. Rep. 4. 64. Gray, Ives' Rep. 5, in part.

Var. **hypecoides.** Gray, Ives' Rep. 5. Watson, Proc. Am. Acad. 11. 122. Parry, Am. Naturalist, 9. 268. Brew. & Wats. l. c.

E. hypecoides. Benth. l. c. Walp. Rep. 1. 116. Dietr. Syn. 3. 286.

Chryseis hypecoides. Torr. & Gray, Fl. 1. 64. Hook. & Arn. Bot. Beechey, 320.

E. minutiflora. Watson, Proc. Am. Acad. 11. 122. Brew. & Wats. l. c.

E. Californica, var. *tenuifolia.* Gray, Ives' Rep. 5, in part.

E. Californica, var. *hypecoides.* Watson, King's Rep. 5. 14.

HUNNEMANNIA fumariæfolia. Sweet, Brit. Fl. Gard. **t. 276.** Hook. Bot. Mag. **t. 3061.** Engelm. Wisliz. Rep. 30. (N. E. Mexico.)

MECONOPSIS heterophylla. Benth. l. c. Torr. & Gray, Fl. 1. 61. Hook. & Arn. l. c. 320. Walp. Rep. 1. 110. Eat. & Wr. 315. Dietr. Syn. 3. 223. Hook. Icon. **t. 732.** Torrey, Pac. R. Rep. 4. 64; Mex. Bound. 31. Gray, Proc. Bost. Soc. 7. 145. Boland. Cat. 4. Brew. & Wats. Bot. Calif. 1. 22.

M. crassifolia. Benth. Trans. Hort. Soc. 2. 1. 408. Torr. & Gray, Fl. 1. 61. Hook. & Arn. Bot. Beechey, 320. Walp. Rep. 1. 110. Dietr. 3. 223.

PAPAVER nudicaule. Linn. Spec. 507. See syn. in DC. Syst. 2. 70; Elkan, Papav. 16 (Walp. Rep. 1. 111); Fisch. & Mey. Ind. Sem. Petr. 3. 43 & Ledeb. Fl. Ross. 1. 87, as *P. alpinum;* Hook. f. & Thomp. Fl. Ind. 1. 249; Regel, Fl. Ost-Sib. 1. 127, as *P. alpinum.* — Pursh, 365. R. Br. in Ross' Voy. 142; Parry's 1st Voy. Appx. 265. Greville, Mem. Soc. Wern. 3. 430. Richards. Frankl. Journ. 12. Hook. in Trans. Linn. Soc. 14. 362; Fl. Bor.-Am. 1. 34. Cham. & Schlecht. in Linn. 1. 551. Meyer, Pl. Lab. 83. Torr. & Gray, Fl. 1. 60. Hook. & Arn. Bot. Beechey, 121. Seem. Bot. Herald, 23, 50, 54 & 55. Durand, Pl. Kane, 186. Lange, Pl. Grönl. 129. Hook. f. in Jour. Linn. Soc. 1. 116, 120 & 5. 82. Dickie, same, 3. 110 & 11. 33.

P. alpinum. Linn. Spec. 507. Hook. f. Arct. Pl. 284 & 313. Gray, Am. Jour. Sci. 2. 33. 407; Proc. Acad. Philad. 1863, 57. Rothr. Fl. Alask. 442. Porter, Fl. Col. 6.

Var. **radicatum.** DC. Syst. 2. 70. Oeder Fl. Dan. **t. 41.** Elkan, l. c. 17. Apparently including all North American forms.

P. alpinum, var. *xanthopetalum.* Regel, Fl. Ost-Sib. 1. 128.

Var. **microcarpum.** Elkan, l. c. 17.

P. alpinum, var. *microcarpum*. Fisch. & Mey. l. c. 43. Regel, l. c. 130.

P. SOMNIFERUM, Linn. Torr. & Gray, Fl. 1. 60. Gray, Manual, 59.

PLATYSTEMON Californicus. Benth. Trans. Hort. Soc. 2. 1. 405. Lindl. Bot. Reg. t. **1679** (Litt. Ber. zu Linn. 1835, 54). Don; Sweet, Brit. Fl. Gard. 2 ser. t. **394**. Hook. Bot. Mag. t. **3579**. Maund, Bot. Gard. 13, t. **582**; Botanist, 2, t. **65**. Torr. & Gray, Fl. 1. 65. Hook. & Arn. Bot. Beechey, 318. Spach, Hist. Veg. 7. 54. Dietr. Syn. 3. 286. Sweet, Orn. Fl. Gard. 2, t. **115**. Torrey, Pac. R. Rep. 4. 64 & 7. 7; Mex. Bound. 31. Newberry, Pac. R. Rep. 6. 67. Boland. Cat. 4. Baill. Hist. Pl. 3. 105, f. **108–111**.

Var. **leiocarpus.** Torr. & Gray, Fl. 1. 65. Benth. Pl. Hartw. 296. Torrey, ll. cc.

P. leiocarpum. Fisch. & Mey. Ind. Sem. Petr. 2 47 (Ann. Sci. Nat. 2. 5. 180; Hook. Comp. Bot. Mag. 2. 8; Litt. Ber. zu Linn. 1837, 117). Hook. Bot. Mag. t. **3750**. Knowles, Fl. Cab. 2. 129, t. **76**.

PLATYSTIGMA Californicum. Benth. & Hook. Genera, 1. 51. Boland. Cat. 4.

Meconella Californica. Torrey, Frem. Rep. 312 (Bot. Zeit. 5. 40); Pac. R. Rep. 4. 64; Mex. Bound. 31. Walp. Ann. 1. 23.

P. lineare. Benth. Trans. Hort. Soc. 2. 1. 407. Fisch. & Mey. Ind. Sem. Petr. 2. 47 (ll. cc.). Hook. Icon. t. **38**; Bot. Mag. t. **3575**. Lindl. Bot. Reg. t. **1954**. Torr. & Gray, Fl. 1. 65. Hook. & Arn. Bot. Beechey, 319. Spach, Hist. Veg. 7. 51. Dietr. Syn. 3. 286. Torrey, Pac. R. Rep. 4. 64; Mex. Bound. 31. Newberry, Pac. R. Rep. 6. 67. Boland. Cat. 4. Baill. Hist. Pl. 3. 106, f. **112**.

P. Oreganum. Benth. & Hook. Genera, 1. 51.

Meconella Oregana. Nutt.; Torr. & Gray, Fl. 1. 64. Hook. Icon. t. **360**. Dietr. Syn. 3. 286.

ROMNEYA Coulteri. Harvey in Lond. Jour. Bot. 4. 74, t. **3**. Walp. Rep. 5. 21. Torrey, Mex. Bound. 31. Baill. Hist. Pl. 3. 107.

SANGUINARIA Canadensis. Linn. Spec. 505. Hill, Veg. Syst. 16, t. **31**. Ait. Hort. Kew. 2. 223. Sims, Bot. Mag. t. **162**. Lam. Ill. 3. 15, t. **449**. Willd. Spec. 2. 1140. Michx. Fl. 1. 309. Poir. Dict. 6. 499. Persoon, 2. 61. Pursh, 366. Bigel. Med. Bot. 1. 75, t. **7**. Nutt. Genera, 2. 10. DC. Syst. 2. 89; Prodr. 1. 121. Elliott, 2. 13. Spreng. Syst. 2. 604. Torrey, Ann. Lyc. N. Y. 2. 166; Fl. N. Y. 1. 43; Nicol. Rep. 144; Emory's Rep. 406. Raf. Med. Fl. 2. 78, f. **83**. Maund, Bot. Gard. 6, t. **242**. Hook. Fl. Bor.-Am. 1. 35. Don, Mill. 1. 136. Lodd. Bot. Cab. t. **1840**. Lindl. Fl. Med. 16. Torr. & Gray, Fl. 1. 62. Spach, Hist. Veg. 7. 39. Dietr. Syn. 3. 261. Leavenworth, Am. Jour. Sci. 1. 49. 130. Nees, Pl. Wied, 4. Gray, Genera, 1. 116, t. **49**; Struct. Bot. 388, f. **688–693**; Manual, 60. Parry, Pl. Minn. 609. Chapman, 22. Lesqx. Fl. Ark. 348. Pl. Bourgeau, 254. Gibb in Canad. Nat. 10. 432. Baill. Hist. Pl. 3. 114, f. **128, 129**.

S. acaulis. Moench, Meth. 227.

S. vernalis. Salisb. Prodr. 377.

S. grandiflora. "Rose. Fl. Ill. t. **8**." Sweet, Brit. Fl. Gard. 2 ser. t. **147**.

STYLOPHORUM diphyllum. Nutt. Genera, 2. 7. Spreng. Syst. 2. 570. Don, Mill. 1. 135. Dietr. Syn. 3. 223. Gray, Genera, 1. 114, t. **48**; Manual, 59. Hook. Bot. Mag. t. **4867**. Lesqx. Fl. Ark. 348.

Chelidonium diphyllum. Michx. Fl. 1. 309. Persoon, 2. 61. Poir. Suppl. 2. 209. Pursh, 365.

Stylophorum petiolatum. Nutt. Genera, 2. 8. Don, Mill. 1. 135. Dietr. Syn. 3. 223.

Meconopsis diphylla. DC. Syst. 2. 88; Prodr. 1. 121. Torr. & Gray, Fl. 1. 61. Walp. Rep. 1. 110. Wood, Cl.-Book, 224; Bot. & Fl. 32.

Meconopsis petiolata. DC. Syst. 2. 87; Prodr. 1. 21. Torrey, Ann. Lyc. N. Y. 2. 165.

Stylophorum Ohioense. Spreng. Syst. 2. 570.

FUMARIACEÆ.

ADLUMIA cirrhosa. Raf. in N. Y. Med. Rep. 5. 353, & Desv. Jour. Bot. 2. 169. DC. Syst. 2. 111; Prodr. 1. 126. Beck, Bot. 24. Darling. Fl. Cestr. 399. Sweet, Brit. Fl. Gard. t. **189**. Hook. Fl. Bor.-Am. 1. 36. Don, Mill. 1. 141. Torr. & Gray, Fl. 1. 68. Spach, Hist. Veg. 7. 71. Torrey, Fl. N. Y. 1. 47. Dietr. Syn. 4. 487. Gray, Genera, 1. 122, t. **51**; Manual, 60. Chapman, 22. Baill. Hist. Pl. 3. 125.

Fumaria fungosa. Ait. Hort. Kew. 3. 1. Gmel. Syst. 2. 1079. Willd. Spec. 3. 857. Poir. Suppl. 2. 683. Spreng. Syst. 3. 162.

Bicuculla fumarioides. Borckh. in Roem. Arch. 1. 2. 46 (Bot. Zeit. 15. 645). Pfeiff. in Bot. Zeit. 15. 649.

Capnoides scandens. Moench, Suppl. 215.

Fumaria recta. Michx. Fl. 2. 51.

Corydalis fungosa. Vent. Choix Pl. Cels, t. **19**. Persoon, 2. 269. Willd. Enum. 739. Pursh, 463. Bigel. Fl. Bost. 2 ed. 263.

CORYDALIS aurea. Willd. Enum. 740. Pursh, 463. DC. Syst. 2. 125, in part; Prodr. 1. 128. Richards. Frankl. Journ. 16. Elliott, 2. 178. Spreng. Syst. 3. 161. Hook. Fl. Bor.-Am. 1. 37; Jour. Bot. 1. 190. Don, Mill. 1. 143. Bernh. in Linn. 8. 470. Torr. & Gray, Fl. 1. 68; Pac. R. Rep. 2. 159. Torrey, Fl. N. Y. 1. 48; Nicol. Rep. 144; Stansb. Rep. 383. Nees, Pl. Wied, 4. Dietr. Syn. 4. 890. Gray, Genera, 1. 124, t. **52**; Pl. Thurb. 299; Pac. R. Rep. 12. 40; Ives's Rep. 5; Manual, 62. Scheele, Roemer's Texas, 436. Parry, Pl. Minn. 609. Seem. Bot. Herald, 51. Durand, Pl. Utah, 158. Chapman, 23. Regel, Fl. Ost-Sib. 1. 145; Gart. Fl. 10, t. **343**; Fl. Ussur. 19. Miquel, Ann. Mus. Lugd.-Bat. 3. 13. Porter, Hayd. Rep. 1870, 473.

Fumaria aurea. Muhl.; Willd. l. c. Poir. Suppl. 2. 683. Ker, Bot. Reg. t. **66**.

Neckeria aurea. Pfeiff. in Bot. Zeit. 15. 649.

C. speciosa. Maxim. Prim. Fl. Amur. 39.

Var. **occidentalis.** Gray, Pl. Fendl. 6; Manual, 62; Hall's Pl. Tex. 3. Porter, Hayd. Rep. 1871, 478. Watson, King's Rep. 5. 14.

C. montana. Engelm.; Wood, Bot. & Fl. 34.

C. aurea. Torrey, Bot. Wilkes, 225.

Var. **micrantha.** Engelm.; Gray, Manual, 62. Watson, King's Rep. 5. 14.

Var. **macrantha.** Wood, Bot. & Fl. 34.

C. Caseana. Gray, Proc. Am. Acad. 10. 69.

C. crystallina. Engelm.; Gray, Manual, 62.

C. aurea, var. *crystallina.* Torr. & Gray, Fl. 1. 665.

C. curvisiliqua. Engelm.; Gray, Manual, 62.

C. aurea, var. *curvisiliqua.* Gray, Proc. Acad. Philad. 1863, 57; Pl. Wright. 2. 10. Torrey, Mex. Bound. 32. Porter, Fl. Col. 6.

C. flavula. DC. Prodr. 1. 129. Don, Mill. 1. 144. Nees, Pl. Wied, 4. Gray, Manual, 61.

Fumaria flavula. Raf. in Desv. Jour. Bot. 1. 224. Poir. Suppl. 5. 384.
Neckeria flavula. Pfeiff. in Bot. Zeit. 15. 649.
C. aurea, var. *flavula.* Wood, Bot. & Fl. 34.

C. glauca. Pursh, 463. DC. Syst. 2. 123; Prodr. 1. 128. Bigel. Fl. Bost. 2 ed. 262. Spreng. Syst. 3. 161. Hook. Fl. Bor.-Am. 1. 37. Don, Mill. 1. 143. Torr. & Gray, Fl. 1. 69. Torrey, Fl. N. Y. 1. 48. Dietr. 4. 890. Seem. Bot. Herald, 50. Chapman, 23. Hook. f. Arct. Pl. 284. Rothr. Alask. 442. Gray, Manual, 61.
Fumaria sempervirens. Linn. Spec. 700. Lam. Dict. 2. 569. Ait. Hort. Kew. 3. 2. Willd. Spec. 3. 863. Michx. Fl. 2. 51.
Neckeria sempervirens. Scop. Introd. Hist. Nat. 313. Pfeiff. in Bot. Zeit. 15. 649.
Fumaria glauca. Curtis, Bot. Mag. t. **179.**
Capnoides glauca. Moench, Meth. 52.
Capnoides sempervirens. Borckh. in Roem. Arch. 1². 44. Persoon, 2. 269. Willd. Enum. 740.
Corydalis sempervirens. Persoon, 2. 269. Richards. Frankl. Journ. 16. Bernh. in Linn. 8. 470. Regel, Fl. Ost-Sib. 1. 147.

C. pæoniæfolia. Persoon, 2. 269. DC. Syst. 2. 122; Prodr. 1. 128. Cham. & Schlecht. in Linn. 1. 562. Turcz. Fl. Baic. 1. 104. Ledeb. Fl. Ross. 1. 102 & 746. Torr. & Gray, Fl. 1. 69 & 665, under *C. Scouleri.*
Fumaria pæoniæfolia. Steph.; Willd. Spec. 3. 859. Poir. Suppl. 2. 683.

C. pauciflora. Persoon, 2. 269. DC. Syst. 2. 115; Prodr. 1. 127. Deless. Icon. Sel. 2, t. **9, f. A.** Cham. & Schlecht. in Linn. 1. 560. Hook. Fl. Bor.-Am. 1. 37. Torr. & Gray, Fl. 1. 70. Hook. & Arn. Bot. Beechey, 121. Ledeb. Fl. Alt. 3. 240; Icon. t. **450**; Fl. Ross. 1. 97. Turcz. Fl. Baic. 1. 102. Seem. Bot. Herald, 23. Hook. f. Arct. Pl. 284. Rothr. Alask. 442.
Fumaria pauciflora. Steph.; Willd. Spec. 3. 861. Poir. Suppl. 2. 684.
F. Altaica. Ledeb. Mem. Acad. Petr. 5. 551.
Bulbocapnos pauciflora. Bernh. in Linn. 8. 469.

C. Scouleri. Hook. Fl. Bor.-Am. 1. 36, t. **13.** Don, Mill. 1. 143. Torr. & Gray, Fl. 1. 69 & 665. Walp. Rep. 1. 121. Dietr. 4. 889. Cooper, Pac. R. Rep. 12. 56.
C. macrophylla. Nutt.; Torr. & Gray, Fl. 1. 69. Walp. Rep. 1. 121.

DICENTRA Canadensis. (On the nomenclature of the genus, variously known as *Dielytra, Diclytra* and *Dicentra*, and of the order, see Pfeiffer in Bot. Zeit. 15. 641–650.) DC. Prodr. 1. 126. Hook. Bot. Mag. t. **3031.** Don, Mill. 1. 140. Torr. & Gray, Fl. 1. 67. Torrey, Fl. N. Y. 1. 46. Dietr. 4. 887. Gray, Genera, 1. 120, t. **50, f. 1–5**; Manual, 61. Schnizl. Icon. t. **180**², **f. 1.** Traill, Canad. Fl. 37, t. **4.**
Corydalis formosa. Pursh, 462, in part.
Corydalis Canadensis. Goldie, Edinb. Phil. Jour. 6. 330. Thomas, Am. Jour. Sci. 1. 26. 114, with t.
D. eximia, var. *β.* Hook. Fl. Bor.-Am. 1. 35.
D. eximia. Beck, Bot. 23; not DC. Darling. Fl. Cestr. 399.

D. chrysantha. Hook. & Arn. Bot. Beechey, 320, t. **73.** Torr. & Gray, Fl. 1. 665. Walp. Rep. 1. 118. Dietr. Syn. 4. 887. Gray, Genera, 1. 120; Proc. Bost. Soc. Nat. Hist. 17. 145. Paxton, Fl. Gard. 3. 151, t. **103.** Torrey, Mex. Bound. 32. Boland. Cat. 4. Brew. & Wats. Bot. Calif. 1. 24.
Capnorchis chrysantha. Planch. Fl. Serr. 8. 193, t. **820** (Walp. Ann. 4. 176).

D. Cucullaria. DC. Syst. 1. 108; Prodr. 1. 125. Hook. Fl. Bor.-Am. 1. 35. Don, Mill. 1. 140. Beck, Bot. 23. Torr. & Gray, Fl. 1. 66. Eat. & Wr. 224. Torrey, Fl. N. Y. 1. 45; Nicol. Rep. 144; Bot. Wilkes, 225. Nees, P. Neuwied, 4. Dietr.

4. 487. Parry, Pl. Minn. 609. Planch. Fl. Serr. 8, **t. 920.** Pfeiff. in Bot. Zeit. 15. 649. Lemaire, Ill. Hort. 6, **t. 215.** Chapman, 23. Gray, Manual, 61. Brew. & Wats. l. c.

Fumaria Cucullaria. Linn. Spec. 699; Mant. 437. Lam. Dict. 2. 571. Ait. Hort. Kew. 3. 1. Willd. Spec. 3. 857. Michx. Fl. 2. 51. Sims, Bot. Mag. **t. 1127.**

D. Canadensis. Borckh. in Roem. Arch. 1². 46 (Bot. Zeit. 15. 645).

Fumaria pallida. Salisb. Prodr. 377.

Corydalis Cucullaria. Persoon, 2. 269. Hornem. Hort. Hafn. 2. 668. Willd. Enum. 739. Pursh, 462. Nutt. Genera, 2. 86. Bigel. Fl. Bost. 2 ed. 263. Spreng. Syst. 3. 162. Torrey, Compend. 259.

Cucullaria bulbosa. Raf. Med. Rep. 5. 353; Desf. in Journ. Bot. 2. 169.

Capnorchis Cucullaria. Planch. Fl. Serr. 8. 193 (Walp. Ann. 4. 176).

D. eximia. DC. Syst. 1. 109; Prodr. 1. 126. Don, Mill. 1. 140. Maund, Bot. Gard. 8, **t. 340.** Torr. & Gray, Fl. 1. 665. Torrey, Fl. N. Y. 1. 46. Gray, Genera, 1. 120, **t. 50, f. 6–10**; Manual, 61. Chapman, 23.

Corydalis formosa. Pursh, 462, in part. Thomas, Am. Jour. Sci. 26. 114, & **t.**

Fumaria eximia. Ker, Bot. Reg. **t. 50** (Spreng. Neue Entdeck. 1. 330). Burnett, Encyc. 2 ed. **t. 227.**

Fumaria formosa. Poir. Suppl. 6. 684.

D. formosa. Elliott, 2. 177. Don, Mill. 1. 140, in part. Torr. & Gray, Fl. 1. 67, excl. syn.

Corydalis eximia. Spreng. Syst. 3. 162.

Eucapnos eximia. Borckh. in Linn. 8. 468.

Capnorchis eximia. Planch. Fl. Serr. 8. 193 (Walp. Ann. 4. 177).

D. formosa. DC. Syst. 2. 109, & Prodr. 1. 125, in part. Hook. Fl. 1. 35, & Don, Mill. 1. 140, in part. Torr. & Gray, Fl. 1. 665. Benth. Pl. Hartw. 296. Dietr. Syn. 4. 887. Newberry, Pac. R. Rep. 6. 66. Cooper, same, 12. 56. Durand, Pl. Pratten. 80. Wood, Cl.-Book, 225. Boland. Cat. 4. Torrey, Bot. Wilkes, 225.

Fumaria formosa. Andr. Bot. Rep. 6, **t. 393.** Sims, Bot. Mag. **t. 1335.** Dryander in Ait. f. Hort. Kew. 4. 239.

Corydalis formosa. Spreng. Syst. 3. 162.

D. eximia. Hook. Fl. Bor.-Am. 1. 35, excl. var. Don, Mill. 1. 140.

Eucapnos formosa. Bernh. in Linn. 8. 468. Spach, Hist. Veg. 7. 68.

D. saccata. Nutt.; Torr. & Gray, Fl. 1. 67. Walp. Rep. 1. 118. Dietr. 4. 887.

Capnorchis formosa. Planch. Fl. Serr. 8. 193 (Walp. Ann. 4. 177).

D. lachenaliæflora. DC. Syst. 2. 111; Prodr. 1. 126. Cham. & Schlecht. in Linn. 1. 556. Hook. Fl. Bor.-Am. 1. 36. Don, Mill. 1. 140. Torr. & Gray, Fl. 1. 68 & 665. Ledeb. Fl. Ross. 1. 97. Dietr. Syn. 4. 887.

Fumaria peregrina. Rudolphi, Mem. Acad. Petr. 1. 379, **t. 19.**

Corydalis tenuifolia. Pursh, 462.

Fumaria tenuifolia. Ledeb. Mem. Acad. Petr. 5. 550. Poir. Suppl. 5. 684.

D. tenuifolia. DC. Syst. 2. 110; Prodr. 1. 126. Deless. Icon. Sel. 2. 4, **t. 9, f. B** Hook. Fl. Bor.-Am. 1. 35. Ledeb. Fl. Ross. 1. 97. Regel & Til. Fl. Ajan. 43.

Corydalis lachenaliflora & *tenuifolia.* Spreng. Syst. 3. 162.

D. uniflora. Kellogg, Proc. Calif. Acad. 4. 141, **fig.** Porter, Hayd. Rep. 1872. 760. Brew. & Wats. Bot. Calif. 1. 24.

FUMARIA OFFICINALIS, Linn. Pursh, 463. Elliott, 2. 179. Bigel. Fl. Bost. 2 ed. 262. Torrey, Compend. 391. Arnott; Hook. Fl. Bor.-Am. 1. 37. Beck. Bot. 23. Torr. & Gray, Fl. 1. 70. Eat. & Wr. 248. Torrey, Fl. N. Y. 1. 49. Gray, Manual, 62.

CRUCIFERÆ.

ALYSSUM CALYCINUM, Linn. Gray, Manual, 72. Wood, Bot. & Fl. 40.

A. Lescurii. Gray, Manual, 72.

Vesicaria (?) *Lescurii.* Gray, Manual, 2 ed. 38. Chapman, 29.

ARABIS alpina. Linn. Spec. 664. See syn. in DC. Syst. 2. 217; Ledeb. Fl. Ross. 1. 117. — Pursh, 436. Greville, Mem. Soc. Wern. 3. 431. Hook. Fl. Bor.-Am. 1. 41. Meyer, Fl. Lab. 85. Don, Mill. 1. 161. Schlecht. Fl. Lab. in Linn. 10. 102. Torr. & Gray, Fl. 1. 80. Durand, Pl. Kane, 186. Lange, Pl. Grönl. 131. Hook. f. in Jour. Linn. Soc. 5. 82; Arct. Pl. 284.

A. arcuata. Gray, Proc. Am. Acad. 6. 187. Boland. Cat. 5. Watson, King's Rep. 18.

Streptanthus arcuatus. Nutt.; Torr. & Gray, Fl. 1. 77. Walp. Rep. 1. 128. Dietr. Syn. 3. 730. Torrey, Mex. Bound. 33.

A. blepharophylla. Hook. & Arn. Bot. Beechey, 321. Torr. & Gray, Fl. 1. 667. Walp. Rep. 1. 132. Dietr. Syn. 3. 693. Kellogg, Proc. Calif. Acad. 1. 33. Gray, Proc. Am. Acad. 6. 167. Boland. Cat. 5. Hook. f. Bot. Mag. t. **6087.**

A. Canadensis. Linn. Spec. 655. Hill, Veg. Syst. 12, t. **9**, f. **4.** Lam. Dict. 1. 221. Willd. Spec. 3. 540. R. Br. in Ait. f. Hort. Kew. 4. 108. Persoon, 2. 205. DC. Syst. 2. 238; Prodr. 1. 147. Deless. Icon. Sel. 2. 9, t. **28.** Elliott, 2. 148. Hook. Fl. Bor.-Am. 1. 43. Beck, Bot. 30. Darling. Fl. Cestr. 383. Torr. & Gray, Fl. 1. 82. Torrey, Nicol. Rep. 145; Fl. N. Y. 1. 55. Dietr. Syn. 3. 694. Gray, Genera, 1. 142, t. **58**, f. **8** (seed); Struct. Bot. 390, f. **698–700**; Manual, 68. Parry, Pl. Minn. 609. Chapman, 28.

A. falcata. Michx. Fl. 1. 31. Poir. Suppl. 1. 414. Pursh, 437. Bigel. Fl. Bost. 251.

A. mollis & *Turritis lyrata.* Raf. in Am. Month. Mag. 2. 43.

A. lyræfolia. DC. Syst. 2. 244; Prodr. 1. 148. Don, Mill. 1. 166.

A. canescens. Nutt.; Torr. & Gray, Fl. 1. 83. Walp. Rep. 1. 133. Dietr. Syn. 3. 694. Watson, King's Rep. 5. 16 (& var. **latifolia**). Torrey, Bot. Wilkes, 228.

A. puberula. Nutt.; Torr. & Gray, Fl. 1. 82. Hook. Icon. t. **359.** Walp. Rep. 1. 133. Dietr. Syn. 3. 693.

A. dentata. Torr. & Gray, Fl. 1. 80. Walp. Rep. 1. 133. Dietr. Syn. 3. 690. Torrey, Nicol. Rep. 145; Fl. N. Y. 1. 54, t. **7.** Parry, Pl. Minn. 609. Chapman, 27. Gray, Manual, 67.

Sisymbrium dentatum. Torrey; Short's Pl. Kentucky, 3d Suppl. 338.

Shortia dentata. Raf. Autikon Bot. 17.

A. Drummondii. Gray, Proc. Am. Acad. 6. 187; Manual, 69. Porter, Fl. Col. 6.

Turritis stricta. Graham in Edinb. Phil. Jour. 1829, 350 (Litt. Ber. zu Linn. 1830, 158). Hook. Fl. Bor.-Am. 1. 40. Don, Mill. 1. 161. Torr. & Gray, Fl. 1. 79. Walp. Rep. 1. 129. Dietr. Syn. 3. 688. Torrey, Fl. N. Y. 1. 53. Gray, Genera, 1. 144, t. **59**; Manual, 1. ed. 36. Seem. Bot. Herald, 51. Wood, Bot. & Fl. 36. Porter, Hayd. Rep. 1871, 478. Coulter, same, 1872, 760.

? *A. lævigata.* Hook. Fl. Bor.-Am. 1. 43, not DC.

? *A. lilacina.* Schrad. Ind. Sem. Gött. 1832 (Litt. Ber. zu Linn. 1833, 25).

T. glabra, var. *β.* Torr. & Gray, Fl. 1. 78.

? *Turritis spathulata.* Nutt.; Torr. & Gray, Fl. 1. 78. Walp. Rep. 1. 129. Dietr. Syn. 3. 689.

Streptanthus angustifolius. Gray, Proc. Acad. Philad. 1863, 57, not Nutt.

Var. **brachycarpa.** Gray, Manual, 69.

Turritis brachycarpa. Torr. & Gray, Fl. 1. 79. Walp. Rep. 1. 130. Dietr. Syn. 3. 689. Gray, Manual, 1 ed. 37.

Var. **alpina.** Watson, King's Rep. 5. 18. Porter, Hayd. Rep. 1871, 478; Fl. Col. 6. Coulter, Hayd. Rep. 760.

? *A. microphylla.* Nutt.; Torr. & Gray, Fl. 1. 82. Walp. Rep. 1. 133. Dietr. Syn. 3. 693.

A. hirsuta, Scop. See syn. in DC. Syst. 2. 223; Ledeb. Fl. Ross. 1. 118; Regel, Fl. Ost-Sib. 1. 160. — Cham. & Schlecht. in Linn. 1. 15. Hook. Fl. Bor.-Am. 1. 42; Lond. Jour. Bot. 6. 69. Don, Mill. 1. 162. Bongard, Sitch. 125. Darling. Fl. Cestr. 2 ed. 382. Torr. & Gray, Fl. 1. 80. Torrey, Fl. N. Y. 1. 53; Bot. Wilkes, 228. Gray, Pl. Fendl. 7; Pac. R. Rep. 12. 41; Am. Jour. Sci. 2. 33. 243; Manual, 68. Seem. Bot. Herald, 51. Cooper, Pac. R. Rep. 12. 56. Chapman, 27. Lesqx. Fl. Ark. 349. Pl. Bourgeau, 254. Hook. f. Arct. Pl. 284. Rothr. Alask. 442. Porter, Hayd. Rep. 1870, 473, & 1871, 478; Fl. Col. 6. Watson, King's Rep. 5. 16, in part (n. 68).

Turritis ovata. Pursh, 438. Smith, Rees Cyc. n. 8.

Arabis ovata. Poir. Suppl. 5. 557.

Turritis hirsuta. Muhl. Cat. 61.

Turritis oblongata. Raf. Am. Monthly Mag. 2. 44.

A. sagittata. DC. Syst. 2. 222, with syn.; Prodr. 1. 143. Richards. Frankl. Journ. 15. Don, Mill. 1. 163.

A. rupestris. Nutt.; Torr. & Gray, Fl. 1. 81. Walp. Rep. 1. 133. Dietr. Syn. 3. 692. Torrey, Bot. Wilkes, 228.

A. Gerardi, Bess., & var. *borealis.* Regel, Fl. Ost-Sib. 1. 161, with syn., keeping it distinct from *A. hirsuta,* and including under it *A. sagittata, borealis,* etc.

Turritis patula. Pl. Bourgeau, 263, in part.

Var. **glabrata.** Torr & Gray, Fl. 1. 80. Torrey, Pac. R. Rep. 4. 65.

A. Holbœllii. Hornem. Fl. Dan. 11, **t. 1879.** Walp. Rep. 1. 132. Dietr. Syn. 3. 693. Lange, Pl. Grönl. 131. Gray, Proc. Am. Acad. 6. 187.

A. retrofracta. Graham, Edinb. Phil. Jour. 1829, 344 (Litt. Ber. zu Linn. 1830, 157). C. A. Meyer, Ind. Sem. Petr. 11. 51. Gray, l. c. Watson, King's Rep. 5. 18. Porter, Hayd. Rep. 1871, 478; Fl. Col. 6. Coulter, Hayd. Rep. 1872, 760.

Turritis patula. Graham, ll. cc., not Ehrh. Hook. Fl. Bor.-Am. 1. 40; Lond. Jour. Bot. 6. 69. Don, Mill. 1. 161. Treviranus, Flora, 16[1]. 124. Nutt. Jour. Acad. Philad. 7. 13. Torr. & Gray, Fl. 1. 79. Gray, Pl. Fendl. 7; Pl. Wright, 2. 10; Ives's Rep. 6; Am. Jour. Sci. 2. 33. 242; Jour. Acad. Philad. 1863, 57. Torrey, Sitgr. Rep. 155; Pac. R. Rep. 4. 65; Bot. Wilkes, 227. Aschers. in Flora, 43. 369. Pl. Bourgeau, 263, in part.

Turritis retrofracta. Hook. Fl. Bor.-Am. 1. 41; Lond. Jour. Bot. 6. 69. Don, Mill. 1. 161. Torr. & Gray, Fl. 1. 79; Pac. R. Rep. 2. 119; Walp. Rep. 1. 130. Dietr. Syn. 3. 688. Gray, Pl. Fendl. 7. Pl. Bourgeau, 254. Anderson, Cat. 117. Torrey, Bot. Wilkes, 228.

? *Turritis mollis.* Hook. Fl. Bor.-Am. 1. 40. Don, Mill. 1. 161. Torr. & Gray, Fl. 1. 78. Hornem. Fl. Dan. 13, **t. 2296.** Walp. Rep. 1. 129. Dietr. Syn. 3. 688. Lange, Pl. Grönl. 131, keeping it distinct. Hook. f. Arct. Pl. 284 & 314, identifying it with *A. retrofracta.* Possibly a form of *A. Drummondii.*

A. heteromalla & *declinata.* Schrad. Ind. Sem. Gött. 1831 (Litt. Ber. zu Linn. 1833, 22).

Streptanthus angustifolius & *virgatus.* Nutt.; Torr. & Gray, Fl. 1. 76. Walp. Rep. 1. 128. Dietr. Syn. 3. 729.

? *Arabis sparsiflora.* Nutt.; Torr. & Gray, Fl. 1. 81. Walp. Rep. 1. 133. Dietr. Syn. 3. 692.

Turritis Grahami. Lehm. Ind. Sem. Hamb. 1831 (Litt. Ber. zu Linn. 1831, 74). Walp. Rep. 1. 129. Dietr. Syn. 3. 688.

A. patula. Torrey, Mex. Bound. 32. Gray, Proc. Am. Acad. 6. 187.

Sisymbrium reflexum. Kellogg, Proc. Calif. Acad. 2. 101, **f. 29.**

A. lævigata. Poir. Suppl. 1. 411. DC. Syst. 2. 237; Prodr. 1. 147. Spreng. Syst. 2. 892. Darling. Fl. Cestr. 2 ed. 382. Torr. & Gray, Fl. 1. 82. Dietr. Syn. 3. 694. Torrey, Fl. N. Y. 1. 55; Nicol. Rep. 145; Bot. Wilkes, 228. Gray, Genera, 1. 142; Manual, 69. Parry, Pl. Minn. 609. Chapman, 28.

Turritis lævigata. Muhl.; Willd. Spec. 3. 543. Persoon, 2. 205. Smith, Rees Cyc. n. 2. Pursh, 438. Nutt. Genera, 2. 71.

A. pendula ? Nutt. Genera, 2. 70. DC. Syst. 2. 236, & Prodr. 1. 147, in part.

A. heterophylla. Nutt.; Torr. & Gray, Fl. 1. 81. Walp. Rep. 1. 133. Dietr. Syn. 3. 693. Gray, Manual, 1 ed. 36.

A. longirostris. Watson, King's Rep. 5. 17, **t. 2.**

A. Ludoviciana. C. A. Meyer, Ind. Sem. Petr. 9. 60; Linn. 18. 170. Walp. Rep. 5. 34. Gray, Manual, 67; Hall's Pl. Tex. 3.

Cardamine Virginica. Linn. Spec. 656, as to syn. Gronov. & Pluk. Hill, Veg. Syst. 12, **t. 19, f. 4.** Willd. Spec. 3. 488. Persoon, 2. 196. Muhl. Cat. 63.

Cardamine Ludoviciana. Hook. Jour. Bot. 1. 191. Torr. & Gray, Fl. 1. 85. Walp. Rep. 1. 136. Dietr. 3. 698. Turcz. Bull. Soc. Mosc. 27². 294. Chapman, 26.

Cardamine Engelmanniana. Ind. Sem. Berol. 1840.

A. lyrata. Linn. Spec. 665. Hill, Veg. Syst. 12, **t. 9, f. 4.** Willd. Spec. 3. 538. Persoon, 2. 204. Pursh, 437. Nutt. Genera, 2. 70. DC. Syst. 2. 231; Prodr. 1. 146. Richards. Frankl. Journ. 15. Don, Mill. 1. 164. Torr. & Gray, Fl. 1. 81. Torrey, Fl. N. Y. 1. 54. Chapman, 27. Gray, Manual, 67. Porter, Hayd. Rep. 1870, 473.

Sisymbrium arabidoides. Hook. Fl. Bor.-Am. 1. 63, **t. 21.** Darling. Fl. Cestr. 2 ed. 387.

Sisymbrium humifusum. J. Vahl; Fl. Dan. 13, **t. 2297.** Lange, Pl. Grönl. 129. Fournier, Mon. Sisymb. 133.

? *A. petræa*, Lam. q. v. Hook. f. unites the two species.

A. patens. Sulliv. Am. Jour. Sci. 1. 42. 49. Gray, Genera, 1. 142, **t. 58**: Manual, 69. Chapman, 27.

A. perfoliata. Lam. Dict. 1. 219. See syn. in DC. Syst. 2. 211, under *Turritis glabra*; Ledeb. Fl. Ross. 1. 116; Regel, Fl. Ost-Sib. 1. 160. — Gray, Manual, 69. Watson, King's Rep. 5. 17. Porter, Hayd. Rep. 1871, 478.

Turritis glabra. Linn. Spec. 666. Richards. Frankl. Journ. 15. Hook. Fl. Bor.-Am. 1. 40; Lond. Jour. Bot. 6. 69. Torr. & Gray, Fl. 1. 78. Walp. Rep. 1. 129. Gray, Pl. Fendl. 7; Manual, 1 ed. 36. Torrey, Pac. R. Rep. 4. 65. Hook. f. Arct. Pl. 284. Pl. Bourgeau, 254. Wood, Bot. & Fl. 36.

Turritis macrocarpa. Nutt.; Torr. & Gray, Fl. 1. 78. Walp. Rep. 1. 129. Dietr. Syn. 3. 689. Torrey, Bot. Wilkes, 227.

Arabis macrocarpa. Torrey, Mex. Bound. 32.

Turritis perfoliata, Neck. Boland. Cat. 5.

A. petiolaris. Gray, Proc. Am. Acad. 6. 187; Hall's Pl. Tex. 3.

Streptanthus petiolaris. Gray, Pl. Lindh. 143; Pl. Fendl. 7; Pl. Wright. 1. 7. Walp. Ann. 2. 33. Torr. & Gray, Pac. R. Rep. 2. 159. Torrey, Mex. Bound. 32.

Streptanthus Brazoensis. Buckley, Proc. Acad. Philad. 1861, 448, ex Gray, same, 1862, 161.

A. petræa. Lam. Dict. 1. 221. See syn. in DC. Syst. 2. 229; Ledeb. Fl. Ross. 1. 120; Regel, Fl. Ost-Sib. 1. 163. — Cham. & Schlecht. in Linn. 1. 15. Hook. Fl. Bor.-Am. 1. 42, excl. syn. Torr. & Gray, Fl. 1. 80. Regel, l. c., **t. 5, f. 5–10.** Hook. f. Arct. Pl. 284 & 314, including *A. lyrata.* Gray, Manual, 67.

Var. **ambigua.** Regel, l. c.

A. ambigua. DC. Syst. 2. 231; Prodr. 1. 145. Cham. & Schlecht. in Linn. 1. 16. Hook. Fl. Bor.-Am. 1. 42. Bong. Sitch. 125. Torr. & Gray, Fl. 1. 81. Ledeb. Fl. Ross. 1. 120.

A. platysperma. Gray, Proc. Am. Acad. 6. 519. Watson, King's Rep. 5. 16.

A. spathulata. Nutt.; Torr. & Gray, Fl. 1. 81, not DC. Walp. Rep. 1. 133. Dietr. Syn. 3. 692.

A. hirsuta. Watson, King's Rep. 5. 16, in part (n. 67).

A. stricta, Huds. See syn. in DC. Syst. 2. 224. — Pursh, 437. Hook. Fl. Bor.-Am. 1. 42. Torr. & Gray, Fl. 1. 80. C. A. Meyer, Fl. Lab. 85.

A. ambigua; petræa.
bulbosa; Cardamine rhomboidea.
declinata; Holboellii.
Douglassii; Cardamine rotundifolia.
falcata; Canadensis.
Gerardi: hirsuta.
hesperidoides; Thelypodium pinnatifidum.
heteromalla; Holboellii.
heterophylla; lævigata.
hirsuta: spathulata.
lævigata & *lilacina;* Drummondii.
lyrafolia; Canadensis.
macrocarpa; perfoliata.
microphylla; Drummondii.
mollis; Canadensis.
A. nudicaulis; Parrya nudicaulis.
ovata; hirsuta.
parviflora; Sisymbrium Thaliana.
patula: Holboellii.
pendula; lævigata.
puberula; canescens.
reptans; Draba Caroliniana.
retrofracta; Holboellii.
rhomboidea; Cardamine rhomboidea.
rotundifolia; Draba Caroliniana.
rupestris; hirsuta.
sagittata; hirsuta.
sparsiflora; Holboellii.
Thaliana; Sisymbrium Thaliana.
tuberosa; Cardamine rhomboidea.
Virginica; Cardamine hirsuta.

BARBAREA vulgaris, R. Br. See syn. in DC. Syst. 2. 206; Ledeb. Fl. Ross. 1. 114; Regel, Fl. Ost-Sib. 1. 153; Hook. f. Arct. Pl. 313. — Nutt. Genera, 2. 67. Cham. & Schlecht. in Linn. 1. 15. Hook. Fl. Bor.-Am. 1. 39; Lond. Jour. Bot. 6. 69. Torr. & Gray, Fl. 1. 75. Torrey, Fl. N. Y. 1. 52; Bot. Wilkes, 226. Gray, Genera, 1. 148, **t. 62;** Manual, 69. Seem. Bot. Herald, 51. Cooper, Pac. R. Rep. 12. 56. Hook. f. Arct. Pl. 284 & 313. Pl. Bourgeau, 254. Rothr. Fl. Alask. 442. Boland. Cat. 4. Watson, King's Rep. 5. 16.

Var. **arcuata,** Koch. Regel, l. c. 157. Gray, Manual, 69.

B. arcuata, Bess. Bongard, Sitch. 124. Ledeb. Fl. Ross. 1. 115, with syn.

B. vulgaris, var. Benth. Pl. Hartw. 297. Torrey, Pac. R. Rep. 4. 65. Mex. Bound. 33. Cooper, Pac. R. Rep. 6. 66.

Var. **gracilis,** DC. Torr. & Gray, Fl. 1. 75. Watson, King's Rep. 5. 16.

Var. **stricta,** Regel, l. c. 155. Gray, Manual, 69.

B. præcox. Richards. Frankl. Journ. 15. Cham. & Schlecht. in Linn. 1. 15. Hook. Fl. Bor.-Am. 1. 39. Torr. & Gray, Fl. 1. 75. Pl. Bourgeau, 254.

B. PRÆCOX, R. Br. Gray, Manual, 69.

BISCUTELLA Californica. Benth. & Hook. Genera, 1. 91.

Dithyræa Californica. Harv. in Lond. Jour. Bot. 4. 77, **t. 5.** Walp. Rep. 5. 38; Ann. 3. 821. Engelm. in Wisliz. Rep. 12. Gray, Pl. Wright. 2. 14; Ives's Rep. 7. Torrey, Pac. R. Rep. 4. 66 & 5. 359; Mex. Bound. 34.

B. Wislizeni. Benth. & Hook. Genera, 1. 91.

Iberis, n. sp. Torrey, Ann. Lyc. N. Y. 2. 166.

Dithyræa Wislizeni. Engelm. in Wisliz. Rep. 11. Gray, Pl. Lindh. 150; Pl. Fendl. 116; Pl. Wright. 1. 10 & 2. 14; Pl. Thurb. 299; Ives's Rep. 7. Torrey, Marcy's Rep. 280, **t. 2**; Sitgr. Rep. 155 & 175; Pac. R. Rep. 4. 66 & 7. 8; Mex. Bound. 34. Walp. Ann. 3. 281. Torr. & Gray, Pac. R. Rep. 2. 159.

BRASSICA ALBA. Gray, Manual, 70. Boland. Cat. 5.

Sinapis alba, Linn. Gray, Manual, 1 ed. 38. C. E. Smith, Proc. Acad. Philad. 1867, 17.

B. CAMPESTRIS, Linn. Gray, Manual, 71. Watson, King's Rep. 5. 28.

B. NIGRA, Koch. Gray, Manual, 71. Boland. Cat. 5. Watson, King's Rep. 5. 28.

Sinapis nigra, Linn. Torr. & Gray, Fl. 1. 99. Torrey, Fl. N. Y 1. 61; Pac. R. Rep. 7. 8. Gray, Pl. Fendl. 9; Manual, 1 ed. 38; Pac. R. Rep. 12. 41.

B. RAPA, Linn. Hook. f. Arct. Pl. 286.

B. SINAPISTRUM, Boiss. Gray, Manual. 70. Coulter, Hayd. Rep. 1872, 761.

Sinapis arvensis, Linn. Torr. & Gray, Fl. 1. 99. Torrey, Fl. N. Y. 1. 61; Pac. R. Rep. 7. 8. Gray, Manual, 1 ed. 38. Hook. f. Arct. Pl. 286.

BRAYA alpina, Sternb. & Hoppe. See syn. in Hook. f. Arct. Pl. 286 & 319; Fournier, Mon. Sisymbr. 131, & Trautvetter, Trud. Petr. 1. 59, under *Sisymbrium alpinum.*—Deless. Icon. Sel. 2. 7, **t. 22.** Hook. Exot. Fl. 2, **t. 121**; Jour. Linn. Soc. 5. 82. A. Braun in Flora, 14^2. 561, **t. 2.**

Var. **Americana.** Hook. Fl. Bor.-Am. 1. 65. Torr. & Gray, Fl. 1. 111.

Var. **glabella.**

B. glabella. Richards. Frankl. Journ. 15. DC. Prodr. 1. 141. Spreng. Syst. 2. 881. Hook. Fl. Bor.-Am. 1. 65. Don, Mill. 1. 160. Torr. & Gray, Fl. 1. 111. Walp. Rep. 1. 172. Bunge, Ann. Sci. Nat. 2. 18. 222. Dietr. 3. 688. Seem. Bot. Herald, 54 & 55.

Platypetalum purpurascens. R. Br. in Parry's 1st Voy. 267 (Flora, 7^2, Beil. 71). Hook. Fl. Bor.-Am. 1. 66, **t. 23.** Don, Mill. 1. 268. Torr. & Gray, Fl. 1. 111. Hornem. Fl. Dan. 13, **t. 2295.** Walp. Rep. 1. 174. Dietr. 3. 674. Lange, Fl. Grönl. 130. Hook. f. Jour. Linn. Soc. 1. 116 & 121. Dickie, same, 3. 110.

P. dubium. R. Br. ll. cc. Hook. l. c. Don, l. c. Torr. & Gray, l. c. Walp. l. c. Dietr. l. c.

B. arctica. Hook. in Parry's 2d Voy. 387.

Sisymbrium alpinum, var. *glabellum.* Trautv. l. c.

B. purpurascens. Bunge; Ledeb. Fl. Ross. 1. 195.

B. Eschscholtziana. Benth. & Hook. Genera, 1. 83.

Aphragmus Eschscholtzianus. Andrz. in DC. Prodr. 1. 210. Don, Mill. 1. 223. Torr. & Gray, Fl. 1. 112. Dietr. 3. 675. Rothr. Alask. 443.

Oreas involucrata. Cham. & Schlecht. in Linn. 1. 29, **t. 1.** Hook. Fl. Bor.-Am. 1. 67. Don, Mill. 2. 215.

Orobium involucratum. Reich. Consp. 185.

B. pilosa. Hook. Fl. Bor.-Am. 1. 65, **t. 17.** Don, Mill. 1. 160. Torr. & Gray, Fl. 1. 111. Walp. Rep. 1. 172. Dietr. 3. 688. Seem. Bot. Herald, 51. Hook. f. Arct. Pl. 286 & 319.

B. rosea. Bunge, Del. Sem. Dorp. 1839, 7 (Litt. Ber. zu Linn. 1840, 118); Ann. Sci. Nat. 2. 18. 222; Ledeb. Fl. Ross. 1. 195. Walp. Rep. 1. 172. Hook. f. Arct. Pl. 286 & 319.

Sisymbrium alpinum, var. *roseum*. Trautv. l. c.

CAKILE Americana. Nutt. Genera, 2. 62. DC. Syst. 2. 429 & Prodr. 1. 185, excl. var. Spreng. Syst. 2. 852. Don, Mill. 1. 200. Richard, Fl. Cuba, 69, under *C. maritima*. Gray, Genera, 1. 170, **t. 74**; Manual, 75. Griseb. Fl. Brit. W. Ind. 15. Smith, Proc. Acad. Philad. 1867, 18.

C. maritima. Pursh, 434. Hook. f. Arct. Pl. 286.

Bunias edentula. Bigel. Fl. Bost. 157.

C. edentula. Hook. Fl. Bor.-Am. 1. 59.

C. maritima, var. *Americana*. Torr. & Gray, Fl. 1. 119. Torrey, Ann. Lyc. N. Y. 4. 92; Fl. N. Y. 1. 66.

C. maritima, Scop. See syn. in DC. Syst. 2. 428.

Var. **æqualis.** Chapman, 31.

C. æqualis, L'Her. DC. Syst. 2. 430; Prodr. 1. 185. Deless. Icon. Sel. 2. **t. 57**. Griseb. l. c. 14, with syn.

C. Americana, var. *Cubensis*. DC. Syst. 2. 430; Prodr. 1. 185.

C. Americana. Elliott, 2. 137.

C. maritima. Richard, Fl. Cuba, 66, in part.

CAMELINA SATIVA, Crantz. Beck, Bot. 27. Darling. Fl. Cestr. 379. Torr. & Gray, Fl. 1. 110. Torrey, Fl. N. Y. 1. 63. Chapman, 30. Pl Bourgeau, 254. Gray, Manual, 73. Porter, Fl. Col. 10.

CAPSELLA BURSA-PASTORIS, Moench. Walt. Fl. Car. 173. Richards. Frankl. Journ. 16. Hook. Fl. Bor.-Am. 1. 69. Darling. Fl. Cestr. 380. Torr. & Gray, Fl. 1. 117. Torrey, Nicol. Rep. 145; Fl. N. Y. 1. 65; Mex. Bound. 35; Bot. Wilkes, 234. Seem. Bot. Herald, 50. Parry, Pl. Minn. 609. Newberry, Pac. R. Rep. 6. 66. Cooper, same, 12. 56. Gray, same, 12. 41; Manual, 73. Lange, Pl. Grönl 130. Aschers. in Flora, 43. 370. Chapman, 30. Hook. f. Arct. Pl. 286. Anderson, Cat. 117. Boland. Cat. 5. Watson, King's Rep. 5. 28.

Thlaspi Bursa-pastoris, Linn. Pursh, 435. Elliott, 2. 141.

C. divaricata. Walp. Rep. 1. 175. Watson, King's Rep. 5. 28.

Hymenolobus divaricatus. Nutt.; Torr. & Gray, Fl. 1. 117. Hook. Icon. **t. 277**. Dietr. 3. 664. Torrey, Mex. Bound. 35.

H. erectus. Nutt.; l. c. Hook. Icon., under t. 277. Dietr. l. c.

C. erecta. Walp. Rep. 1. 175.

C. pubens. Benth. & Hook. Genera, 1. 86

Hymenolobus pubens. Gray, Pl. Wright. 1. 9 & 2. 14. Walp. Ann. 4. 212. Torrey, Mex. Bound. 34.

CARDAMINE angulata. Hook. Fl. Bor.-Am. 1. 44; Bot. Misc. 1. 343, **t. 69**. Don, Mill. 1. 168. Torr. & Gray, Fl. 1. 84. Hook. & Arn. Bot. Beechey, 135. Walp. Rep. 1. 136. Dietr. 3. 698. Cooper, Pac. R. Rep. 12. 56. Regel, Fl. Ost-Sib. 1. 172, excl. var. Gray, Proc. Am. Acad. 8. 376. Torrey, Bot. Wilkes, 228.

C. bellidifolia. Linn. Spec. 654. See syn. in DC. Syst. 2. 249; Ledeb. Fl. Ross. 1. 123; Regel, Fl. Ost-Sib. 1. 170; Hook. f. Arct. Pl. 314. — R. Br. in Parry's 1st Voy. 198. Cham. & Schlecht. in Linn. 1. 19. Hook. Fl. Bor.-Am. 1. 44. Don, Mill. 1. 167. Beck, Bot. 31. Torr. & Gray, Fl. 1. 84. Walp. Rep. 1. 135. Dietr. 3. 695. Seem. Bot. Herald, 54. Lange, Pl. Grönl. 131. Dickie, Jour. Linn. Soc. 1. 110. Aschers. in Flora, 43. 369. Hook. f. Arct. Pl. 284 & 314. Gray, Manual, 66.

C. rotundifolia. Bigel. Fl. Bost. 2 ed. 252.

C. Lenensis. Andrz.; Ledeb. Icon. t. **268**; Fl. Alt. 3. 33; Fl. Ross. 1. 123. Walp. Rep. 2. 757. Rothr. Alask. 443.

C. Breweri. Watson, Proc. Am. Acad. 10. 339. Brew. & Wats. Bot. Calif. 1. 31.

C. paucisecta, var. *angulata.* Anderson, Cat. Pl. Nevada, 117.

C. paucisecta. Porter, Hayd. Rep. 1870, 473; 1871, 478. Coulter, same, 1872, 760.

C. oligosperma. Gray, Proc. Am. Acad. 8. 376, not Nutt.

C. Clematitis. Shuttl. in Herb. Gray, ined.

Nasturtium officinale. Torr. & Gray, Fl. 1. 666.

C. cordifolia. Gray, Pl. Fendl. 8; Am. Jour. Sci. 2. 33. 243; Proc. Acad. Philad. 1863, 57; Proc. Am. Acad. 8. 376. Walp. Ann. 2. 35. Watson, King's Rep. 5. 19. Porter, Fl. Col. 6. Torrey, Bot. Wilkes, 229.

C. rhomboidea. Durand, Fl. Utah, 159. Porter, Hayd. Rep. 1871, 478.

C. hirsuta. Linn. Spec. 655. See syn. in DC. Syst. 2. 259; Ledeb. Fl. Ross. 1. 127; Hook. Fl. Tasm. 1. 20. — Richards. Frankl. Journ. 15. Cham. & Schlecht. in Linn. 1. 20. Hook. Fl. Bor.-Am. 1. 45; Jour. Bot. 1. 191; Lond. Jour. Bot. 6. 69. Bong. Sitch. 125. Beck, Bot. 31. Darling. Fl. Cestr. 385. Torr. & Gray, Fl. 1. 85. Torrey, Fl. N. Y. 1. 57; Bot. Wilkes, 229. Parry, Pl. Minn. 609. Cooper, Pac. R. Rep. 12. 56. Turcz. Bull. Soc. Mosc. 27². 294. Lesqx. Fl. Ark. 349. Chapman, 26. Gray, Proc. Acad. Philad. 1863, 57; Manual, 67; Proc. Am. Acad. 8. 377, excl. var. Pl. Bourgeau, 254. Hook. f. Arct. Pl. 284 & 314. Rothr. Alask. 443. Boland. Cat. 5. Watson, King's Rep. 5. 20. Coulter, Hayd. Rep. 1872, 760. Porter, Fl. Col. 6.

C. Pennsylvanica. Muhl.; Willd. Spec. 3. 486. Persoon, 2 196. Poir. Suppl. 2. 395. Pursh, 240. DC. Syst. 2. 258; Prodr. 1. 151. Elliott, 2. 144. Don, Mill. 1. 169.

? *Sisymbrium Nasturtium.* Walt. Fl. Car. 174.

Var. **sylvatica.** Gray, Manual, 67.

C. Virginica. Michx. Fl. 2. 29, not Linn. Pursh, 439. DC. Syst. 2. 258; Prodr. 1. 151. Elliott, 2. 144. Don, Mill. 1. 169. Dietr. 3. 698.

Arabis Virginica. Poir. Suppl. 1. 413.

C. sylvatica, Link. DC. Syst. 2. 260, and syn. Regel, Fl. Ost-Sib. 1. 171.

C. hirsuta, var. *Virginica.* Torr. & Gray, Fl. 1. 85. Chapman, 26.

C. oligosperma. Nutt.; Torr. & Gray, Fl. 1. 85. Walp. Rep. 1. 136 Dietr. 3. 698. Benth. Pl. Hartw. 297. Torrey, Pac. R. Rep. 4. 65; Bot. Wilkes, 229. Cooper, Pac. R. Rep. 12. 56. Boland. Cat. 5. Coulter, Hayd. Rep. 1872, 760. Gray, Proc. Am. Acad. 8. 376.

C. hirsuta, var. Gray, Proc. Am. Acad. 8 377.

C. paucisecta. Benth. Pl. Hartw. 297. Walp. Ann. 2. 35. Durand, Pl. Pratten. 80. Boland. Cat. 5.

C. purpurea. Torr. & Gray, Fl. 1. 667.

C. angulata. Torrey, Pac. R. Rep. 4. 65, & 7. 7; Mex. Bound. 32. Boland. Cat. 5.

C. pratensis. Linn. Spec. 656. See syn. in DC. Syst. 2. 256; Ledeb. Fl. Ross. 1. 125; Regel, Fl. Ost-Sib. 1. 175. — Pursh, 440. Richards. Frankl. Journ. 15. Hook. Fl. Bor.-Am. 1. 45. Beck, Bot. 31. Torr. & Gray, Fl. 1. 84. Hook. & Arn. Bot. Beechey, 121. Torrey, Fl. N. Y. 1. 57. Seem. Bot. Herald, 24 & 51. Lange, Pl. Grönl. 131. Hook. f. Arct. Pl. 285 & 314. Rothr. Alask. 443. Gray, Manual, 66.

? *C. digitata.* Richards. Frankl. Journ. 15. DC. Prodr. 1. 153. Spreng. Syst. 2. 888. Cham. & Schlecht. in Linn. 1. 19. Hook. Fl. Bor.-Am. 1. 45. Don, Mill. 1. 170. Torr. & Gray, Fl. 1. 86. Ledeb. Fl. Ross. 1. 128. Dietr. 3. 697. Seem. Bot. Herald, 24 & 51. Hook. f. in Jour. Linn. Soc. 1. 120. Rothr. Alask. 443.

Var. **angustifolia.** Hook. Fl. Bor.-Am. 1. 45. Don, Mill. 1. 169. Durand, Pl. Kane, 186.

C. purpurea. Cham. & Schlecht. in Linn. 1. 20. Hook. Fl. Bor.-Am. 1. 44. Don, Mill, 1. 168 & 170. Torr. & Gray, Fl. 1. 84. Hook. & Arn. Bot. Beechey, 121. Ledeb. Fl. Ross. 1. 127. Walp. Rep. 1. 136. Dietr. 3. 697. Seem. Bot. Herald, 23. Hook. f. Arct. Pl. 215. Rothr. Alask. 443.

C. rhomboidea. DC. Syst. 2. 246; Prodr. 1. 149. Spreng. Syst. 2. 885. Don, Mill. 1. 167. Hook. Bot. Misc. 3. 239, **t. 108.** Beck, Bot. 30. Darling. Fl. Cestr. 384. Torrey, Fl. N. Y. 1. 56. Gray, Genera, 1. 136, **t. 55**; Manual, 66. Parry, Pl. Minn. 609. Chapman, 25.

Arabis bulbosa. Schreb.; Muhl. Ind. Fl. Lanc. 174. Spreng. Mant. Fl. Hal. 46.

A. rhomboidea. Persoon, 2. 204. Poir. Suppl. 1. 414. Pursh, 437. Nutt. Genera, 2. 70. Elliott, 2. 149. Bigel. Fl. Bost. 2 ed. 252. Darling. in Am. Jour. Sci. 1. 18. 357 (Litt. Ber. zu Linn. 1832, 5).

A. tuberosa. Persoon, 2. 204. Poir. Suppl. 1. 414.

? *Thlaspi* (!) *tuberosum.* Nutt. Genera, 2. 65. DC. Syst. 2. 382; Prodr. 1. 177. Spreng. Syst. 2. 879. Don, Mill. 1. 192. Beck, Bot. 25. Torr. & Gray, Fl. 1. 114. Dietr. 3. 658.

C. rotundifolia, var. *a.* Torr. & Gray, Fl. 1. 83.

C. rotundifolia. Michx. Fl. 2. 30. Persoon, 2. 195. Poir. Suppl. 2. 394. Pursh, 439. DC. Syst. 2. 247; Prodr. 1. 149. Spreng. Syst. 2. 885. Hook. Fl. Bor.-Am 1. 44; Bot. Misc. 3. 239, **t. 109.** Beck, Bot. 30. Darling. ll. cc.; Fl. Cestr. 384. Don, Mill. 1. 163. Gray, Am. Jour. Sci. 1. 42. 30 (Lond. Jour. Bot. 1. 237); Manual, 66. Dietr. 3. 695. Chapman, 25.

Arabis Douglassii. Torrey, Am. Jour. Sci. 1. 4. 63.

A. rhomboidea, var. *purpurea.* Torrey, l. c. 66.

C. rotundifolia, vars. β. & γ. Torr. & Gray, Fl. 1. 83.

C. spathulata. Michx. Fl. 2. 29. Persoon, 2. 195. Pursh, 439. DC. Syst. 2. 247; Prodr. 1. 149. Elliott, 2. 143. Spreng. Syst. 2. 885. Don, Mill. 1. 167. Torr. & Gray, Fl. 1. 84. Dietr. 3. 695. Chapman, 26. Wood, Cl.-Book, 231; Bot. & Fl. 38. Known only from Michaux ?

C. angulata; paucisecta.
articulata; Parrya nudicaulis.
digitata; pratensis.
diphylla; Dentaria diphylla.
Engelmanniana; Arabis Ludoviciana.
heterophylla; Dentaria heterophylla.
hirsuta; oligosperma.
laciniata; Dentaria laciniata.
Lenensis; bellidifolia.
Ludoviciana; Arabis Ludoviciana.
maxima; Dentaria maxima.
Menziesii; Sisymbrium canescens.
multifida; Sisymbrium canescens, Dentaria multifida.
C. nudicaulis; Parrya nudicaulis.
oligosperma; Breweri.
parviflora; hirsuta.
paucisecta; Breweri.
Pennsylvanica; hirsuta.
purpurea; paucisecta.
rhomboidea; cordifolia.
rotundifolia; bellidifolia, rhomboidea.
sylvatica; hirsuta.
teres; Nasturtium tanacetifolium.
uniflora; Leavenworthia Michauxii.
Virginica; hirsuta, Arabis Ludoviciana.

CAULANTHUS Coulteri. Watson, King's Rep. 5. 27.

Streptanthus heterophyllus. Gray, Proc. Bost. Nat. Hist. Soc. 7. 145; Proc. Am. Acad. 6. 185, in part.

S. Coulteri. Gray; Watson, King's Rep. 5. 19.

C. crassicaulis. Watson, King's Rep. 5. 27.

Streptanthus crassicaulis. Torrey, Stansb. Rep. 383, **t. 1** (Flora, 36. 702). Walp. Ann. 4. 192. Durand, Fl. Utah, 159. Gray, Proc. Am. Acad. 6. 186. Watson, l. c. 19.

C. hastatus. Watson, King's Rep. 5. 28, **t. 23**. Brew. & Wats. Bot. Calif. 1. 36.

C. pilosus. Watson, l. c. 27. Brew. & Wats. l. c.

C. procerus. Watson, l. c. 27. Brew. & Wats. l. c.

Streptanthus flavescens. Gray, Proc. Am. Acad. 6. 186, in part.

S. procerus. Brewer; Gray, Proc. Am. Acad. 6. 519. Boland. Cat. 5. Watson, King's Rep. 5. 19.

CHEIRANTHUS asper. Cham. & Schlecht. in Linn. 1. 14, excl. syn. Torrey, Mex. Bound. 32.

C. capitatus. Dougl.; Hook. Fl. Bor.-Am. 1. 38; Lond. Jour. Bot. 6. 68. Don, Mill. 1. 154. Hook. & Arn. Bot. Beechey, 135. Walp. Rep. 1. 125. Dietr. 3. 683. Benth. Pl. Hartw. 297. Torrey, Pac. R. Rep. 4. 64. Boland. Cat. 4.

Erysimum grandiflorum. Nutt.; Torr. & Gray, Fl. 1. 96 & 667. Walp. Rep. 1. 170. Dietr. 3. 716.

C. Menziesii. Benth. & Hook. Genera, 1. 68. Watson, King's Rep. 5. 14.

Hesperis Menziesii. Hook. Fl. Bor.-Am. 1. 60. Torr. & Gray, Fl. 1. 91. Hook. & Arn. Bot. Beechey, 322, **t. 75**. Walp. Rep. 1. 162. Dietr. 3. 706.

Phanicaulis cheiranthoides. Nutt.; Torr. & Gray, Fl. 1. 89. Dietr. 3. 701. Torrey, Bot. Wilkes, 229.

C. pygmæus. "Adams in Mem. Soc. Nat. Mosc. 5. 114." DC. Syst. 2. 187; Prodr. 1. 137. Don, Mill. 1. 155. Benth. & Hook. Genera, 1. 68.

C. Pallasii. Pursh, 436. DC. Syst. 2. 186; Prodr. 1. 136. Spreng. Syst. 2. 895. Hook. Fl. Bor.-Am. 1. 28. Don, Mill. 1. 155. Torr. & Gray, Fl. 1. 71. Dietr. 3. 684.

Hesperis pygmæa. Hook. Fl. Bor.-Am. 1. 60, **t. 19**. Hook. & Arn. Bot. Beechey, 122.

H. minima. Torr. & Gray, Fl. 1. 90. Dietr. 3. 705.

H. Pallasii. Torr. & Gray, Fl. 1. 666. Seem. Bot. Herald, 24. Durand, Pl. Kane, 186. Hook. f. Arct. Pl. 285 & 319. Rothr. Alask. 443.

Hesperis Hookeri. Ledeb. Fl. Ross. 1. 174. Hook. f. in Jour. Linn. Soc. 1. 121. Trautv. in Middend. Reise, 1. 59.

Erysimum pygmæum. Gay, Erysim. 4.

Sisymbrium pygmæum. Trautv. in Trud. Petr. 1. 60 (Trim. Jour. Bot. 2. 1. 215).

COCHLEARIA Anglica. Linn. Spec. 2 ed. 903. See syn. in DC. Syst. 2. 364, Hook. f. Arct. Pl. 318. — Hook. Fl. Bor.-Am. 1. 57. Torr. & Gray, Fl. 1. 109. Hook. & Arn. Bot. Beechey, 121. Ledeb. Fl. Ross. 1. 157. Seem. Bot. Herald, 24. Durand, Pl. Kane, 188. Hook. f. in Jour. Linn. Soc. 1. 116 & 121; Arct. Pl. 285 & 318. Dickie, Jour. Linn. Soc. 3. 110. Rothr. Alask. 443.

C. Danica. Linn. Spec. 647. See syn. in DC. Syst. 2. 366. — Cham. & Schlecht. in Linn. 1. 26. Hornem. Fl. Dan. 11, **t. 1934**. Hook. Fl. Bor.-Am. 1. 57. Torr. & Gray, Fl. 1. 110. Ledeb. Fl. Ross. 1. 157. Hook. f. Arct. Pl. 285 & 318.

C. officinalis. Linn. Spec. 647. See syn. in DC. Syst. 2. 364; Hook. f. Arct. Pl.

285; Trautv. in Trud. Petr. 1. 57 (Trim. Jour. Bot. 1. 215). — Greville, Mem. Soc. Wern. 3. 431. Meyer, Fl. Lab. 86. Hook. Fl. Bor.-Am. 1. 57. Schlecht. in Linn. 10. 102. Torr. & Gray, Fl. 1. 110. Seller, Ann. & Mag. Nat. Hist. 1. 16. 167. Durand, Pl. Kane, 188. Lange, Pl. Grönl. 129. Hook. f. in Jour. Linn. Soc. 5. 82; Arct. Pl. 285 & 318. Dickie, Jour. Linn. Soc. 11. 33.

C. Grœnlandica. Linn. Spec. 647. Hill, Veg. Syst. 11, **t. 47. f. 4.** Lam. Dict. 2. 165. Retz, Fl. Scand. 2. ed. 154. Willd. Spec. 3. 449. Persoon, 2. 186. Lodd. Cab. **t. 45.** DC. Syst. 2. 366; Prodr. 1. 173. Maund, Bot. Gard. 1, **t. 64.** Torr. & Gray, Fl. 1. 110.

C. fenestrata. R. Br. in Ross' Voy. 143; Parry's Voy. 266. DC. Syst. 2. 367; Prodr. 1. 174. Hook. in Trans. Linn. Soc. 14. 365; Fl. Bor.-Am. 1. 57. Don, Mill. 1. 189. Torr. & Gray, Fl. 1. 109. Dietr. 3. 652. Seller, l. c. Seem. Bot. Herald, 24 & 54. Durand, Pl. Kane, 188. Lange, Pl. Grönl. 129. Dickie, Jour. Linn. Soc. 3. 110. Rothr. Alask. 443. [*Eutrema Rossii.* Spreng. Syst. 2. 880.] — Referred to *C. Anglica* by Hook. f. Malmgren in Seem. Jour. Bot. 2. 138 includes *C. Grœnlandica* and *Danica*, and considers it scarcely distinct from *C. Anglica*.

C. arctica. Schlecht.; DC. Syst. 2. 367; Prodr. 1. 174. Carried to *C. Danica* by Cham. & Schlecht. Kept distinct by Trautv. l. c., and in Middend. Reise, 1. 58, with syn.

C. oblongifolia. DC. Syst. 2. 363; Prodr. 1. 173. Cham. & Schlecht. in Linn. 1. 26. Spreng. Syst. 2. 877. Hook. Fl.-Bor. Am. 1. 56. Bong. Sitch. 125. Don, Mill. 1. 188. Torr. & Gray, Fl. 1. 108. Hook. & Arn. Bot. Beechey, 121. Ledeb. Fl. Ross. 1. 157. Dietr. 3. 652. Seem. Bot. Herald. 24, 51 & 55. Rothr. Alask. 443. Referred to *C. Anglica* by Hook. f.; to *C. arctica*, var. *oblongifolia*, by Trautv. in Middend. Reise, 1. 59.

C. sisymbrioides. DC. Syst. 2. 368; Prodr. 1. 174. Ledeb. Fl. Ross. 1. 158. Hook. f. Arct. Pl. 285 & 318, the only authority for an American habitat.

C. tridactylites. Banks; DC. Syst. 2. 367; Prodr. 1. 174. Spreng. Syst. 2. 877. Hook. Fl. Bor.-Am. 1. 57. Don, Mill. 1. 189. Torr. & Gray, Fl. 1. 110. Dietr. 3. 653.

DENTARIA diphylla. Michx. Fl. 2. 30. Persoon, 2. 194. Poir. Suppl. 2. 465. Sims, Bot. Mag. **t. 1465.** Pursh, 438. Nutt. Genera, 2. 66. DC. Syst. 2. 274; Prodr. 1. 155. Elliott, 2. 142. Torrey, Compend. 248; Fl. N. Y. 1. 58. Spreng. Syst. 2. 884. Hook. Fl. Bor.-Am. 1. 46; Journ. Bot. 1. 192. Don, Mill. 1. 172. Beck, Bot. 28. Torr. & Gray, Fl. 1. 87. Bigel. Fl. Bost. 3 ed. 271. Eat. & Wr. 222. Dietr. 3. 700. Chapman, 26. Gray, Manual, 65.

D. bifolia. Stokes, Bot. Mat. Med. 3. 443.

Cardamine diphylla. Wood, Bot. & Fl. 37. The genus is reduced to *Cardamine* by Benth. & Hook. in Gen. Pl. 1. 70.

D. heterophylla. Nutt. Genera, 2. 66. Barton, Comp. Fl. Phil. 2. 54. DC. Syst. 2. 274; Prodr. 1. 155. Spreng. Syst. 2. 884. Torrey, Compend. 249. Don, Mill. 1. 172. Beck. Bot. 28. Torr. & Gray, Fl. 1. 87. Eat. & Wr. 222. Dietr. 3. 700. Chapman, 26. Gray, Manual, 65. Buchan, Canad. Nat. 14. 300. Coulter, Bot. Gazette, 1. 8; uniting *D. laciniata, maxima* & *multifida.*

Cardamine heterophylla. Wood, Bot. & Fl. 38.

D. laciniata. Muhl.; Willd. Spec. 3. 479. Persoon, 2. 194. Poir. Suppl. 2. 465. Pursh, 438. Muhl. Cat. 63. Nutt. Genera, 2. 66. DC. Syst. 2. 273; Prodr. 1. 155. Barton, Comp. Fl. Phil. 2. 53; Fl. N. Am. 3. 4, **t. 72.** Elliott, 2. 142. Bigel. Fl. Bost. 2 ed. 254. Spreng. Syst. 2. 883. Torrey, Compend. 248. Hook. Fl. Bor.-Am. 1. 46; Journ. Bot. 1. 192. Don, Mill. 1. 172. Beck, Bot. 28. Darling. Fl. Cestr.

385. Torr. & Gray, Fl. 1. 86, excl. var. δ. Walp. Rep. 1. 138. Eat. & Wr. 222. Dietr. 3. 700. Torrey, Fl. N. Y. 1. 58; Nicol. Rep. 145. Nees, Pl. Neuwied, 4. Chapman, 26. Gray, Manual, 66.

D. concatenata. Michx. Fl. 2. 30. Persoon, 2. 194. Poir. Suppl. 2. 465.

Cardamine laciniata. Wood, Bot. & Fl. 38.

D. macrocarpa. Nutt.; Torr. & Gray, Fl. 1. 88. Walp. Rep. 1. 138. Dietr. 3. 700.

D. maxima. Nutt. Genera, 2. 66. DC. Syst. 2. 275; Prodr. 1. 155. Spreng. Syst. 2. 884. Don, Mill. 1. 172. Beck, Bot. 29. Torr. & Gray, Fl. 1. 87. Dietr. 3. 700. Torrey, Fl. N. Y. 1. 59. Gray, Genera, 1. 138, **t. 56**; Manual, 65. Ruger, Torr. Bulletin, 1. 6.

D. laciniata, var. δ. Torr. & Gray, Fl. 1. 86.

Cardamine maxima. Wood, Bot. & Fl. 38.

D. multifida. Muhl. Cat. 63. Elliott, 2. 142. Torr. & Gray, Fl. 1. 87. Walp. Rep. 1. 138. Dietr. 3. 700. Chapman, 26. Gray, Manual, 66.

D. disseeta. Leavenworth, Am. Jour. Sci. 1. 7. 62.

Cardamine multifida. Wood, Bot. & Fl. 38, not Pursh.

D. tenella. Pursh, 439. Poir. Suppl. 5. 654. Nutt. Genera, 2. 66. DC. Syst. 2. 274; Prodr. 1. 155. Spreng. Syst. 2. 884. Don, Mill. 1. 172. Torr. & Gray, Fl. 1. 87. Eat. & Wr. 222. Dietr. 3. 700. Cooper, Pac. R. Rep. 12. 56. Regel, Fl. Uss. 22. Torrey, Bot. Wilkes, 229. Brew. & Wats. Bot. Calif. 1. 30.

D. tenuifolia. Hook. Fl. Bor.-Am. 1. 46; not Ledeb.

DRABA alpina. Linn. Spec. 642. See syn. in DC. Syst. 2. 338; Lindberg in Linn. 13. 319; Hook. f. Arct. Pl. 285 & 316; Regel, Fl. Ost-Sib. 1. 181.—Greville, Mem. Soc. Wern. 3. 424. R. Br. in Parry's 1st Voy. 265. Richards. Frankl. Journ. 16. Hook. in Trans. Linn. Soc. 14. 363; Parry's 2d Voy. 385; Fl. Bor.-Am. 1. 50. Cham. & Schlecht. in Linn. 1 22. Don, Mill. 1. 183. Torr. & Gray, Fl. 1. 103. Hook. & Arn. Bot. Beechey, 121. Ledeb. Fl. Ross. 1. 146. Seem. Bot. Herald, 24 & 54. Durand, Pl. Kane, 186. Lange, Pl. Groenl. 130. Hook. f. in Journ. Linn. Soc. 1. 116 & 121, and 5 82. Dickie, same, 3. 110. Gray, Am. Journ. Sci. 2. 33. 243. Pl. Bourgeau, 254. Rothr. Alask. 443. Watson, King's Rep. 5. 20. Porter, Hayd. Rep. 1871, 478; Fl. Col. 7. Coulter, Hayd. Rep. 1872, 760. Brew. & Wats. Bot. Calif. 1. 29

Var. **hebecarpa.** Lindb. in Linn. 13. 320. Regel, Fl. Ost-Sib. 1. 183.

D. alpina, var. β. R. Br. in Parry's 1st Voy. 265. Hook. Fl. Bor.-Am. 1. 50. Torr. & Gray, Fl. 1. 103. Durand, Pl. Kane, 186.

Var. **algida.** Regel, Fl. Ost-Sib. 1 183. Watson, King's Rep. 5. 21. Brew. & Wats. Bot. Calif. 1. 29.

D. algida. Adams; DC. Syst. 2. 337; Prodr. 1. 167. Cham. & Schlecht. in Linn. 1. 21. Hook. l. c. Torr. & Gray, Fl. 1. 101 Eat. & Wr. 228. Dietr. 3. 646. Rothr. Alask. 443. Trautv. in Act. Hort. Petrop. 1. 53 (Trim. Journ. Bot. 1. 214), including *D. pilosa* & *ochroleuca.*

D. macrocarpa. Adams, Mem. Soc. Mosc. 9. 249.

D. pilosa. Adams; DC. Syst. 2. 336. Regel, Fl. Ost-Sib. 1. 184, with syn.; Descr. Pl. Nov. fasc. 5. 22.

D. pauciflora. R. Br. in Parry's 1st Voy. 266 (Flora, 7², Beil. 71). Hook. in Parry's 2d Voy. 385; Fl. Bor.-Am. 1. 51. Torr. & Gray, Fl. 1. 104. Walp. Rep. 1. 151. Eat. & Wr. 228. Kept distinct by Trautv. in Act. Hort. Petrop. 4. 55, with syn.

Var. **glacialis**. Dickie, Journ. Linn. Soc. 11. 33. Watson, King's Rep. 5. 21. Coulter, Hayd. Rep. 1872, 760. Brew. & Wats. l. c.

D. glacialis. Adams, Mem. Soc. Mosc. 5. 106. DC. Syst. 2. 338; Prodr. 1. 167. Grah. in Edinb. Phil. Journ. 1829, 183. Hook. Fl. Bor.-Am. 1. 51; Lond. Journ. Bot. 6. 71. Torr. & Gray, Fl. 1. 104. Ledeb. Fl. Ross. 1. 147. Walp. Rep. 1. 151. Eat. & Wr. 228. Dietr. 3. 647. Seem. Bot. Herald, 24, 51 & 54. Durand, Pl. Kane, 187. Regel, Fl. Ost-Sib. 1. 186, **t. 5, f. 3, 4**; Descr. Pl. Nov. fasc. 5. 22. Rothr. Alask. 443. Trautv. l. c. 54. Porter, Hayd. Rep. 1871, 478. Coulter, same, 1872, 760. Regel, l. c.

D. incompta. Stev. in Mem. Soc. Mosc. 3. 268. Deless. Icon. Sel. 2, **t. 44**.

D. oligosperma. Hook. Fl. Bor.-Am. 1. 51. Torr. & Gray, Fl. 1. 104. Walp. Rep. 1. 151. Eat. & Wr. 228. Dietr. 3. 649.

D. densifolia. Nutt.; Torr. & Gray, Fl. 1. 104. Walp. Rep. 1. 151. Dietr. 3. 649. Gray, Proc. Am. Acad. 7. 329.

Var. (?) **micropetala**. Durand, Pl. Kane, 187.

D. micropetala. Hook. in Parry's 2d. Voy. 385; Fl. Bor.-Am. 1. 52. Torr. & Gray, Fl. 104. Walp. l. c. Dietr. l. c. Hook. f. in Jour. Linn. Soc. 1. 116.

Var. (?) **corymbosa**. Durand, Pl. Kane, 187.

D. corymbosa. R. Br. in Ross' Voy. 143. DC. Syst. 2. 343; Prodr. 1. 169. Don, Mill. 1. 184. Hook. Fl. 1. 52. Torr. & Gray, Fl. 1. 105. Dietr. 3. 649. Vahl; Liebm. Fl. Dan. 14, **t. 2418**. Lange, Pl. Grönl. 129. Referred to *D. androsacea* by Hook. f. Arct. Pl. 317.

D. alpina, var. δ. Hook. Fl. Bor.-Am. 1. 52.

D. androsacea. Wahl. Fl. Lapp. 174, **t. 11, f. 5**. See syn. by Lindb. in Linn. 13. 324 & Regel, Fl. Ost-Sib. 1. 188, under *D. Wahlenbergii*; Turcz. Fl. Baic. 1. 135; Hook. f. Arct. Pl. 285 & 316. — Don, Mill. 1. 184. Lange, Pl. Grönl. 130.

D. lactea. Adams, Mem. Soc. Mosc. 5. 194. DC. Syst. 2. 347. Lange, Pl. Grönl. 130. Regel, Fl. Ost-Sib. 1. 195, with syn.

? *D. corymbosa*, R. Br. See under *D. alpina*.

D. Lapponica. Willd.; DC. Syst. 2. 344. R. Br. in Parry's 1st Voy. 266. Cham. & Schlecht. in Linn. 1. 22. Hook. Fl. Bor.-Am. 1. 53. Torr. & Gray, Fl. 1. 105. Durand, Pl. Kane, 187.

D. hirta, var. 3. Hook. in Parry's 2d Voy. 386.

D. Fladnitzensis, Wulf. DC. Syst. 2. 345, with syn. Turcz. Fl. Baic. 1. 133, with syn. Ball, Bull. Bot. Soc. France, 7. 230 & 249; Hook. f. Arct. Pl. 315.

D. nivalis. DC. Syst. 2. 344, not Lilj. Durand, Pl. Kane, 187.

D. Wahlenbergii, Hartm. See Lindb. in Linn. 13. 324; Ledeb. Fl. Ross. 1. 150; Regel, Fl. Ost-Sib. 1. 188, **t. 5, f. 11, 12**. — Vahl; Fl. Dan. 14, **t. 2420**.

D. arabisans. Michx. Fl. 2. 28. Poir. Suppl. 2. 525. DC. Syst. 2. 349; Prodr. 1. 170. Torrey, Compend. 247; Fl. N. Y. 1. 62. Hook. Fl. Bor.-Am. 1. 55. Don, Mill. 1. 185. Beck, Bot. 26. Torr. & Gray, Fl. 1. 106 & 668. Eat. & Wr. 228. Dietr. 3. 651. Gray, Genera, 1. 160, **t. 68**; Manual, 71. Pl. Bourgeau, 254.

D. Arabis. Persoon, 2. 190. Nutt. Genera, 2. 63. Schwein. in Long's Exp. 2, Appx. 115. Spreng. Syst. 2. 876.

D. glabella. Pursh, 434. Poir. Suppl. 5. 661. DC. Syst. 2. 355; Prodr. 1. 172. Hook. Fl. Bor.-Am. 1. 54, in part. Don, Mill. 1. 186. Torr. & Gray, Fl. 1. 107, in part. Eat. & Wr. 227. Aschers. in Flora, 43. 369.

D. incana, var. *glabriuscula*. Gray, Ann. Lyc. N. Y. 3. 223.

D. Henneana. Schlecht. Fl. Lab. in Linn. 10. 109.

D. Canadensis. Brunet, Pl. Canad. 1. 22.

D. aurea. Vahl.; Hornem. "Fl. Œcon. 2 ed. 599"; Fl. Dan. 9, t. **1460.** DC. Syst. 2. 350; Prodr. 1. 170. Spreng. Syst. 2. 875. Hook. Bot. Mag. t. **2934**; Fl. Bor.-Am. 1. 55. Don, Mill. 1. 186. Torr. & Gray, Fl. 1. 107. Dietr. 3. 651. Lange, Pl. Grönl. 130. Aschers. in Flora, 43. 369. Gray, Am. Jour. Sci. 2. 33. 242; Jour. Acad. Philad. 1863, 58. Hook. f. Arct. Pl. 285 & 317. Porter, Hayd. Rep. 1870, 473; 1871, 478; Fl. Col. 7. Watson, King's Rep. 5. 22. Coulter, Hayd. Rep. 1872, 760.

Var. **stylosa.** Gray, Am. Jour. Sci. 2. 33. 242.

D. aurea. Gray, Pl. Fendl. 10. Torrey, Pac. R. Rep. 4. 66.

D. brachycarpa. Nutt.; Torr. & Gray, Fl. 1. 108. Walp. Rep. 1. 152. Dietr. 3. 651. Torrey, Nicol. Rep. 145. Chapman, 29. Gray, Manual, 71.

D. Caroliniana. Walt. Fl. Car. 174. Willd. Spec. 3. 427. Persoon, 2. 190. Poir. Suppl. 2. 525. DC. Syst. 2. 353; Prodr. 1. 171. Elliott, 2. 138. Don, Mill. 1. 186. Beck, Bot. 26. Torr. & Gray, Fl. 1. 109. Dietr. 3. 651. Torrey, Fl. N. Y. 1. 62; Nicol. Rep. 145; Bot. Wilkes, 233. Parry, Pl. Minn. 609. Chapman, 29. Gray, Manual, 72.

? *Arabis reptans.* Lam. Dict. 1. 222. Willd. Spec. 3. 536. Persoon, 2. 204. Pursh, 437. DC. Syst. 2. 242; Prodr. 1. 148. Don, Mill. 1. 166. Torr. & Gray, Fl. 1. 83.

? *D. bifolia.* Muhl. Ind. Fl. Lanc. 173.

D. hispidula. Michx. Fl. 2. 28. Pursh, 433.

Arabis rotundifolia. Raf. in Am. Monthly Mag. 2. 43.

D. umbellata. Muhl. Cat. 62.

Var. **micrantha.** Gray, Manual, 72. Watson, King's Rep. 5. 23.

D. micrantha. Nutt.; Torr. & Gray, Fl. 1. 109. Walp. Rep. 1. 152. Dietr. 3. 651. Engelm. & Gray, Pl. Lindh. 32. Gray, Pl. Fendl. 10; Pl. Wright. 2. 13; Pl. Thurb. 298; Manual, 2 ed. 37; Pac. R. Rep. 12. 41. Torrey, Mex. Bound. 33.

? *D. filicaulis.* Scheele, Linn. 21. 583, fide Gray, Pl. Lindh. 150.

D. crassifolia. Grah. in Edinb. Phil. Journ. 1829, 182 (Litt.-Ber. zu Linn. 1830, 155). Hook. Fl. Bor.-Am. 1. 54. Torr. & Gray, Fl. 1. 106. Walp. Rep. 1. 151. Dietr. 3. 649. Vahl; Liebm. Fl. Dan. 14, t. **2419.** Lange, Pl. Groenl. 130. Gray, Proc. Acad. Philad. 1863, 57. Brew. & Wats. Bot. Calif. 1. 28.

D. Johannis. Gray, Am. Journ. Sci. 2. 33. 242; not Host.

D. cuneifolia. Nutt.; Torr. & Gray, Fl. 1. 108; Pac. R. Rep. 2. 160. Walp. Rep. 1. 152. Eat. & Wr. 229. Dietr. 3. 651. Engelm. & Gray, Pl. Lindh. 32. Gray, Pl. Fendl. 10; Ives' Rep. 6; Manual, 72. Scheele, Roem. Texas, 436. Torrey, Pac. R. Rep. 4. 66. Chapman, 29. Porter, Fl. Col. 8. Parry, Am. Naturalist, 9. 268. Brew. & Wats. Bot. Calif. 1. 28.

? *D. filicaulis* & *Roemeriana.* Scheele, Linn. 21. 583, fide Gray, Pl. Lindh. 150.

D. Douglasii. Gray, Proc. Am. Acad. 7. 328. Anderson, Cat. 118. Watson, King's Rep. 5. 22.

D. eurycarpa. Gray, Proc. Am. Acad. 7. 520.

D. hirta. Linn. Syst. 10 ed. 1127. See syn. in DC. Syst. 2. 343; Lindb. in Linn. 13. 329; Turcz. Fl. Baic 1. 138; Regel & Til. Fl. Ajan. 49. — Richards. Frankl. Journ. 16. Hook. Trans. Linn. Soc. 14. 364; Parry's 2d Voy. 385; Fl. Bor.-Am. 1. 52. Don, Mill. 1. 184. Torr. & Gray, Fl. 1. 105. Hook. & Arn. Bot. Beechey, 121. Ledeb. Fl. Ross. 1. 151. Vahl.; Liebm. Fl. Dan. 14, t. **2422.** Seller, Ann. & Mag. Nat. Hist. 1. 16. 169. Seem. Bot. Herald, 24. Durand, Pl. Kane, 187. Lange, Pl. Grönl. 130. Hook. f. in Jour. Linn. Soc. 1. 121; Arct. Pl. 285 & 317. Rothr. Alask. 443.

D. oblongata. R. Br. in Ross' Voy. 143. DC. Syst. 2. 342; Prodr. 1. 168. Spreng. Syst. 2. 874. Hook. Fl. Bor.-Am. 1. 52. Don, Mill. 1. 184. Torr. & Gray, Fl. 1. 105. Dietr. 3. 649.

D. arctica. Vahl.; Hornem. Fl. Dan. 13, **t. 2294**. Lange, Pl. Groenl. 129.

D. gracilis. Ledeb. Fl. Ross. 1. 152. Walp. Rep. 1. 150. Rothr. Alask. 443.

D. incana, forma altera. Cham. & Schlecht. in Linn. 1. 24.

D. confusa, var. *pauciflora.* DC. Prodr. 1. 170.

D. hyperborea. Desv. Jour. Bot. 3. 172.

Alyssum hyperboreum. Linn. Spec. 651. Hill, Veg. Syst. **11, t. 53, f. 8.** Poir. Suppl. 1. 306. DC. Syst. 2. 323; Prodr. 1. 164. Pursh, 434. Hook. Fl. Bor.-Am. 1. 49. Torr. & Gray, Fl. 1. 103. Ledeb. Fl. Ross. 1. 139. Dietr. 3. 641. Rothr. Alask. 443.

D. grandis. Langsd.; DC. Syst. 2. 355. Deless. Icon. Sel. 2. 14, **t. 47.** Rothr. Alask. 443.

Cochlearia septentrionalis. DC. Prodr. 1. 174.

C. spathulata. Schlecht.; DC. Syst. 2. 369; Prodr. 1. 174. Cham. & Schlecht. in Linn. 1. 27. Hook. Fl. Bor.-Am. 1. 57. Don, Mill. 1. 189. Torr. & Gray, Fl. 1. 110. Ledeb. Fl. Ross. 1. 158. Dietr. 3. 353. Regel, Fl. Ost-Sib. 1. 200.

Draba spathulata. Spreng. Syst. 2. 876.

Var. **siliquosa.** Gray in Herb.

Cochlearia siliquosa. Schlecht.; DC. Syst. 2. 369; Prodr. 1. 174. Cham. & Schlecht. in Linn. 1. 27. Hook. Fl. Bor.-Am. 1. 57. Don, Mill. 1. 189. Torr. & Gray, Fl. 1. 110.

D. incana. Linn. Spec. 643. See syn. in DC. Syst. 2. 348, under *D. contorta* & *confusa*; Lindb. in Linn. 13. 330; Turcz. Fl. Baic. 1. 139; Ledeb. Fl. Ross. 1. 152; Regel & Til. Fl. Ajan. 55; Hook. f. Arct. Pl. 285. — Pursh, 434. Hook. Trans. Linn. Soc. 14. 365; Fl. Bor.-Am. 1. 54. Spreng. Syst. 2. 876. Cham. & Schlecht. in Linn. 1. 23. Meyer, Pl. Lab. 84. Don, Mill. 1. 185. Torr. & Gray, Fl. 1. 107. Seem. Bot. Herald, 24 & 51. Lange, Pl. Grönl. 130. Hook. f. in Jour. Linn. Soc. 1. 121 & 124; Arct. Pl. 285 & 317. Pl. Bourgeau, 254. Rothr. Alask. 443. Gray, Manual, 71.

D. contorta. Ehrh. Beitr. 7. 155. DC. Prodr. 1. 170. Meyer, Pl. Lab. 84. Don, Mill. 1. 185.

D. glabella. Richards. Frankl. Journ. 16, not Pursh. Hook. Fl. Bor.-Am. 1. 54.

Var. **confusa.** Poir. Suppl. 2. 524. Torr. & Gray, Fl. 1. 107. Durand, Pl. Kane, 187.

D. confusa. Ehrh. Beitr. 7. 155. DC. Syst. 2. 348, excl. var. *β.*; Prodr. 1. 170. Hook. Fl. Bor.-Am. 1. 54. Don, Mill. 1. 185. Trautv. & Meyer. Fl. Ochot. 16, with syn.

Var. **borealis.** Torr. & Gray, Fl. 1. 107.

D. borealis. DC. Syst. 2. 342; Prodr. 1. 168. Spreng. Syst. 2. 874. Hook. Fl. Bor.-Am. 1. 55. Don, Mill. 1. 184. Ledeb. Fl. Ross. 1. 153. Dietr. 3. 649. Regel & Til. Fl. Ajan. 59. Rothr. Alask. 443.

D. Unalaschkiana. DC. Syst. 2. 350; Prodr. 1. 170. Spreng. Syst. 2. 876. Hook. Fl. Bor.-Am. 1. 55. Don, Mill. 1. 185. Torr. & Gray, Fl. 1. 107. Ledeb. Fl. Ross. 1. 153. Dietr. 3. 650. Rothr. Alask. 443.

D. montana. Watson, ined. (*D. nemorosa.* Rothr. Pl. Wheeler, 34.)

D. nemorosa. Linn. Spec. 643. See syn. in DC. Syst. 2. 351, under *D. nemoralis*; Lindb. l. c. 333; Ledeb. l. c. 154; Regel, Fl. Ost-Sib. 1. 198; Maxim. Bull. Acad. Petersb. 22. 228. — Gray, Manual, 72. Macoun & Gibson, Trans. Edinb. 12. 314.

Var. α. **leiocarpa.** Lindb. l. c. Ledeb. l. c. Regel, l. c.

D. lutea, Gilib. See syn in DC. Syst. 2. 351. — Richards. Frankl. Journ. 16. Hook. Fl. Bor.-Am. 1. 55. Torr. & Gray, Fl. 1. 107. Pl. Bourgeau, 254.

D. gracilis. Grah. Edinb. Phil. Journ. 1828, 172 (Litt.-Ber. zu Linn. 1830, 126).

D. nemorosa, var. *lutea.* Porter, Hayd. Rep. 1871, 478; Fl. Col. 8.

Var. β. **hebecarpa.** Lindb. l. c., and others. Torrey, Bot. Wilkes, 233.

D. nemoralis. Ehrh. Beitr. 7. 154. Nutt. Genera, 2. 62. Hook. Fl. Bor.-Am. 1. 55. Don, Mill. 1. 186. Torr. & Gray, Fl. 1. 108. Gray, Manual, 1 ed. 39; Proc. Acad. Philad. 1863, 58. Cooper, Pac. R. Rep. 12. 56.

? *D. muralis.* Hook. Fl. Bor.-Am. 1. 56. Torr. & Gray, Fl. 1. 108. Hook. f. Arct. Pl. 285.

D. nemorosa. Gray, Am. Jour. Sci. 2. 33. 242. Anderson, Cat. 118. Watson, King's Rep. 5. 22. Porter, Hayd. Rep. 1871, 478.

D. lutea, var. *longipes.* Hook. in Lond. Jour. Bot. 671, not DC.

Var. **alpina.** Porter, Fl. Col. 8.

D. platycarpa. Torr. & Gray, Fl. 1. 108. Walp. Rep. 1. 152. Dietr. 3. 651. Gray, Pl. Lindh. 148; Ives's Rep. 6. Scheele in Röm. Texas, 436.

? *D. Roemeriana.* Scheele in Linn. 21. 583.

D. ramosissima. Desv. Jour. Bot. 3. 186. DC. Syst. 2. 355; Prodr. 1. 171. Don, Mill. 1. 186. Gray, Ann. Lyc. N. Y. 3. 224; Manual, 71. Torr. & Gray, Fl. 1. 106. Dietr. 3. 651. Chapman, 29.

D. arabisans. Pursh, 434, not Michx.

Alyssum (?) *dentatum.* Nutt. Genera, 2. 63. Beck, Bot. 26. Nees, Pl. Wied, 4.

D. dentata. Hook. & Arn. in Jour. Bot. 1. 192. Hook. Icon. **t. 31.**

D. rupestris. R. Br. in Ait. f. Hort. Kew. 4. 91. See syn. in DC. Syst. 2. 344; Regel, Fl. Ost-Sib. 1. 194; Ruprecht, Fl. Cauc. 1. 119. — Cham. & Schlecht. in Linn. 1. 23. Ledeb. Icon. **t. 260**; Fl. Ross. 1. 149. Hook. Fl. Bor.-Am. 1. 93. Don, Mill. 1. 184. Torr. & Gray, Fl. 1. 105. Dietr. 3. 649. Vahl, Fl. Dan. 14, **t. 2421.** Seem. Bot. Herald, 54. Durand, Pl. Kane, 187. Lange, Pl. Grönl. 130. Hook. f. in Jour. Linn. Soc. 1. 116 & 121, & 5. 82; Arct. Pl. 285 & 317. Dickie, Jour. Linn. Soc. 3. 110.

D. hirta, var. 4. Hook. in Parry's 2d Voy. 386.

D. stellata, Jacq. See syn. in DC. Syst. 2. 346; Ledeb. Fl. Ross. 1. 149, under *D. frigida*; Ball, Bull. Soc. Bot. France, 7. 229 & 249; Regel, Fl. Ost-Sib. 1. 192. — Cham. & Schlecht. in Linn. 1. 22. Hook. Fl. Bor.-Am. 1. 53. Torr. & Gray, Fl. 1. 105. Hook. & Arn. Bot. Beechey, 121. Seem. Bot. Herald, 54. Ascherson, in Flora, 43. 369. Hook. f. Arct. Pl. 285 & 317. Coulter, Hayd. Rep. 1872, 700.

Var. α. **nivalis.** Regel, l. c. 192.

D. frigida, Sauter. Ledeb. Fl. Ross. 1. 149 & 755.

D. muricella, Wahl. R. Br. in Ross' Voy. 193. Greville, Mem. Soc. Wern. 3. 431. DC. Syst. 2. 340; Prodr. 1. 168. Richards. Frankl. Journ. 16. Hook. in Parry's 2d Voy. 387; Trans. Linn. Soc. 14. 364; Fl. Bor.-Am. 1. 52. Graham, Edinb. Phil. Jour. 1829, 345. Meyer, Pl. Lab. 83. Don, Mill. 1. 184. Torr. & Gray, Fl. 1. 104. Seem. Bot. Herald, 24 & 55. Hook. f. Arct. Pl. 285 & 317. Rothr. Alask. 443.

D. nivalis, Lilj. Vahl, Fl. Dan. 14, **t. 2417.** Lange, Pl. Grönl. 130.

Var. β. **hebecarpa.** DC. Syst. 2. 346. Hook. Fl. Bor.-Am. 1. 53. Torr. & Gray, Fl. 1. 105. Gray, Proc. Acad. Philad. 1863, 57. Rothr. Alask. 443. Watson, King's Rep. 5. 21.

Var. γ. **Johannis**. Regel, l. c. 193.

? *D. hirta*, β. *alpicola*. Greville, Mem. Soc. Wern. 3. 431.

? *D. lævipes*. DC. Syst. 2. 346. Deless. Icon. 2, **t. 46, f. A.** Hook. Fl. Bor.-Am. 1. 53. Torr. & Gray, Fl. 1. 105. Ball, l. c. 247.

D. muricella ? Watson, King's Rep. 5. 21.

D. nivalis. Porter, Hayd. Rep. 1870, 473.

D. streptocarpa. Gray, Am. Jour. Sci. 2. 33. 242 (Bull. Soc. Bot. France, 9. 679); Proc. Acad. Philad. 1863, 58. Walp. Ann. 7. 125. Porter, Fl. Col. 7.

D. ventosa. Gray, Am. Naturalist, 8. 212.

D. verna. Linn. Spec. 642. See syn. in DC. Syst. 2. 356, under *Erophila vulgaris*: Lindb. in Linn. 13. 334; Ledeb. Fl. Ross. 1. 155.—Pursh, 433. Barton, Fl. N. Am. 3. 49, **t. 88.** Bigel. Fl. Bost. 250. Torr. & Gray, Fl. 1. 109. Torrey, Fl. N. Y. 1. 63. Gray, Genera, 1. 160, **t. 69**; Struct. Bot. 390, **f. 701, 702**; Manual, 72. Chapman, 29.

D. verna, var. *Americana*. Persoon, 2. 190.

Erophila Americana. DC. Syst. 2. 356; Prodr. 1. 172. Don, Mill. 1. 187.

E. vulgaris. DC. Syst. 2. 356; Prodr. 1. 172. Hook. Fl. Bor.-Am. 1. 172. Don, Mill. 1. 187. Beck, Bot. 26.

D. Caroliniana, var. Barton, Fl. Philad. 2. 58.

Erophila vulgaris, var. *Americana*. Darling. Fl. Cestr. 378.

D. algida; D. alpina.
Arabis; arabisans.
arabisans; ramosissima.
arctica; hirta.
bifolia; Caroliniana.
borealis; incana.
Canadensis; arabisans.
Caroliniana; verna.
confusa; hirta, incana.
contorta; incana.
corymbosa; alpina, androsacea.
crassifolia; androsacea.
densifolia; alpina.
dentata; ramosissima.
filicaulis; Caroliniana, cuneifolia.
Fladnitzensis, androsacea.
frigida; stellata.
glabella; arabisans, incana.
glacialis; alpina.
gracilis; hirta, nemorosa.
grandis; hyperborea.
Henneana; arabisans.
hirta; androsacea, rupestris, stellata.
hispidula; Caroliniana.
D. incana; arabisans, hirta.
incompta; alpina.
Johannis; androsacea, stellata.
lactea & *Lapponica*; androsacea.
lævigata; Eutrema Edwardsii.
lævipes; stellata.
lutea; nemorosa.
macrocarpa; alpina.
micrantha; Caroliniana.
micropetala; alpina.
muralis; nemorosa.
muricella; stellata.
nemoralis; nemorosa.
nivalis; androsacea, stellata.
oblongata; hirta.
ochroleuca; alpina.
oligosperma; androsacea.
pauciflora & *pilosa*; alpina.
Roemeriana; cuneifolia, platycarpa.
spathulata; hyperborea.
stenoloba; hirta.
umbellata; Caroliniana.
Unalaschkiana; incana.
Wahlenbergii; androsacea.

DRYOPETALON runcinatum. Gray, Pl. Wright. 2. 11, **t. 11.** Walp. Ann. 4. 191. Torrey, Mex. Bound. 32.

ERYSIMUM asperum. DC. Syst. 2. 505; Prodr. 1. 199. Spreng. Syst. 2. 907. Torrey, Ann. Lyc. N. Y. 2. 166; Nicol. Rep. 145; Frem. Rep. 87; Stansb. Rep. 388; Pac. R. Rep. 4. 66 & 7. 7; Mex. Bound. 33; Bot. Wilkes, 230. Hook. Fl. Bor.-Am.

1. 64, t. **22**; Lond. Jour. Bot. 6. 69. Don, Mill. 1. 212. Torr. & Gray, Fl. 1. 95 & 667; Pac. R. Rep. 2. 119 & 159. Hook. & Arn. Bot. Beechey, 135 & 323. Dietr. 3. 716. Nees, Pl. Wied, 4. Engelm. Wisliz. Rep. 4. Gray, Pl. Fendl. 9; Pl. Wright. 1. 8 & 2. 13; Pac. R. Rep. 12. 41; Ives's Rep. 6. Durand, Pl. Pratten. 81; Fl. Utah, 159. Cooper, Pac. R. Rep. 12. 56. Pl. Bourgeau, 254. Anderson, Cat. 117. Boland. Cat. 5. Porter, Hayd. Rep. 1870, 473; 1871, 478. Watson, King's Rep. 5. 24. Coulter, Hayd. Rep. 1872, 761.

E. lanceolatum. Pursh, 436. Bradbury, Cat. 338.

Cheiranthus asper. Nutt. Genera, 2. 69. James, Cat. 185.

E. asperum, var. *Purshii.* Durand, Fl. Utah, 159.

Var. **Arkansanum.** Gray, Manual, 69. Porter, Fl. Col. 8.

E. Arkansanum. Nutt.; Torr. & Gray, Fl. 1. 95. Walp. Rep. 1. 170. Dietr. 3. 715. Gray, Genera, 1. 150, t. **63**; Pl. Lindh. 144; Manual, 1 ed. 37. Scheele, Linn. 21. 581; Röm. Texas, 436. Torrey, Emory's Rep. 137. Durand, Pl. Pratten. 81. Boland. Cat. 5.

Var. **elatum.** Torrey, Pac. R. Rep. 7. 7. Durand, Pl. Pratten. 81. Gray, Proc. Bost. Soc. Nat. Hist 7. 146; Am. Jour. Sci. 2. 33. 242; Proc. Acad. Philad. 1863, 57; Proc. Am. Acad. 8. 377.

E. elatum. Nutt.; Torr. & Gray, Fl. 1. 95. Newberry, Pac. R. Rep. 6. 66.

E. cheiranthoides. Linn. Spec. 661. See syn. in DC. Syst. 2. 498; Ledeb. Fl. Ross. 1. 189. — Pursh, 436. Richards. Frankl. Journ. 16. DC. Prodr. 1. 198. Hook. Fl. 1. 64. Beck, Bot. 33. Torr. & Gray, Fl. 1. 94. Torrey, Fl. N. Y. 1. 60; Nicol. Rep. 145; Frem. Rep. 87; Bot. Wilkes, 230. Seem. Bot. Herald, 51. Parry, Pl. Minn. 609. Hook. f. in Journ. Linn. Soc. 1. 124; Arct. Pl. 286 & 319. Gray, Pac. R. Rep. 12. 41; Proc. Acad. Philad. 1863, 57; Manual, 69. Lesqx. Fl. Ark. 349. Regel, Fl. Ost-Sib. 1. 206. Pl. Bourgeau, 254. Porter, Hayd. Rep. 1871, 478; Fl. Col. 8. Watson, King's Rep. 5. 24. Coulter, Hayd. Rep. 1872, 761.

E. parviflorum. Persoon, 2. 199. Nutt. Genera, 2. 68.

Sisymbrium cheiranthoides. Eat. & Wr. 429.

E. parviflorum. Nutt.; Torr. & Gray, Fl. 1. 95. Walp. Rep. 1. 170. Eat. & Wr. 239. Dietr. 3. 715.

E. lanceolatum. Hook. Fl. Bor.-Am. 1. 64; not R. Br. Torr. & Gray, Fl. 1. 94. Eat. & Wr. 238. Seem. Bot. Herald, 51. Rothr. Alask. 443.

? *E. hieracifolium.* Hook. f. Arct. Pl. 286 & 319, as to American localities.

E. asperum, var. *inconspicuum.* Watson, King's Rep. 5. 24. Brew. & Wats. l. c. 39.

E. ORIENTALE, R. Br. A. H. Smith, Proc. Acad. Philad. 1867, 17.

E. pumilum. Nutt.; Torr. & Gray, Fl. 1. 95. Walp. l. c. Dietr. l. c. Gray, Am. Journ. Sci. 2. 33. 242; Proc. Acad. Philad. 1863, 57. Brew. & Wats. l. c.

E. asperum, var. *pumilum.* Porter, Fl. Col. 8.

? *Hesperis Pallasii.* Porter, Fl. Col. 9.

EUTREMA Edwardsii. R. Br. in Parry's 1st Voy. 267, t. **A** (Flora, 7², Beil. 73). Hook. in Parry's 2d Voy. 388; Fl. Bor.-Am. 1. 67. Spreng. Syst. 2. 880. Don, Mill. 1. 215. Meyer, Ledeb. Fl. Alt. 3. 163. Ledeb. Icon. t. **258**; Fl. Ross. 1. 197. Hornem. Fl. Dan. 13, t. **2242**. Torr. & Gray, Fl. 1. 112. Dietr. 3. 673. Lange, Pl. Groenl. 130. Hook. f. in Journ. Linn. Soc. 1. 121 & 5. 82; Arct. Pl. 286. Rothr. Alask. 443. Referred in Walp. Rep. 1. 171 to *Smelowskia cinerea* (Meyer in Ledeb. Fl. Alt. 3. 171), with syn.

Draba (?) *lævigata.* Cham. & Schlecht. in Linn. 1. 25. Hook. Fl. Bor.-Am. 1. 54. Don, Mill. 1. 186. Torr. & Gray, Fl. 1. 106.

Sisymbrium Edwardsii. Trautv. in Trud. Petr. 1. 59 (Trim. Jour. Bot. 2. 1. 215), with syn.; suppressing the genus.

E. Labradoricum. Turcz. in Bull. Soc. Mosc. 27^2. 305.

GREGGIA camporum. Gray, Pl. Wright. 1. 8, **t. 1,** & 2. 13; Pl. Fendl. 116. Torr. & Gray, Pac. R. Rep. 2. 159. Walp. Ann. 4. 208. Torrey, Mex. Bound. 33.

HESPERIS MATRONALIS, Linn. Hook. Fl. Bor.-Am. 1. 59. Torr. & Gray, Fl. 1. 90. Wood, Bot. & Fl. 39.

LEAVENWORTHIA Michauxii. Torrey, Ann. Lyc. N. Y. 4. 89. Torr. & Gray, Fl. 1. 90. Dietr. 3. 701. Chapman, 27. Gray, Manual, 65.

Cardamine uniflora. Michx. Fl. 2. 29. Persoon, 2. 195. Poir. Suppl. 2. 394. Pursh, 439. DC. Syst. 2. 251; Prodr. 1. 150. Spreng. Syst. 2. 885. Leavenworth, Am. Jour. Sci. 1. 7. 63. Don, Mill. 1. 167.

L. aurea. Torrey, l. c. 88. Torr. & Gray, Fl. 1. 89. Dietr. 3. 701. Gray, Genera, 1. 140, **t. 57**; Manual, 2 ed. 31. Chapman, 27. Hook. Bot. Mag. **t. 5730.**

LEPIDIUM alyssoides. Gray, Pl. Fendl. 10; Pl. Wright. 1. 10 & 2. 15; Ives's Rep. 7. Walp. Ann. 2. 51. Torr. & Gray, Pac. R. Rep. 2. 160. Torrey, same, 4. 67; Mex. Bound. 34. Watson, King's Rep. 5. 29. Porter, Fl. Col. 10.

L. CAMPESTRE, R. Br. Beck, Bot. 27. Torr. & Gray, Fl. 1. 115. Gray, Manual, 74.

L. dictyotum. Gray, Proc. Am. Acad. 7. 329. Anderson, Cat. 117. Watson, King's Rep. 5. 30, **t. 4, f. 1, 2.**

L. DRABA, Linn. Gray, Manual, 74.

L. flavum. Torrey, Pac. R. Rep. 4. 67. Watson, King's Rep. 5. 30.

L. Fremonti. Watson, King's Rep. 5. 30, **t. 4, f. 3, 4.**

L. integrifolium. Nutt.; Torr. & Gray, Fl. 1. 116. Walp. Rep. 1. 176. Dietr. 3. 666. Hook. in Lond. Jour. Bot. 6. 71.

L. intermedium. Gray, Pl. Wright. 2. 15; Pac. R. Rep. 12. 41.; Manual, 74. Torr. & Gray, Pac. R. Rep. 2. 160. Walp. Ann. 4. 214. Torrey, Mex. Bound. 34. Durand, Fl. Utah, 159. Anderson, Cat. 117. Leggett, Torr. Bull. 1. 22. Watson, King's Rep. 5. 29. Porter, Hayd. Rep. 1871, 478; Fl. Col. 10.

L. ruderale, not Linn. Richards. Frankl. Journ. 16. Hook. Fl. Bor.-Am. 1. 68; Jour. Bot. 1. 192. Torr. & Gray, Fl. 1. 115. Torrey, Nicol. Rep. 145; Frem. Rep. 87; Emory's Rep. 137; Bot. Wilkes, 233. Gray, Pl. Fendl. 10. Seem. Bot. Herald, 51. Hook. f. Arct. Pl. 286 & 320. Porter, Hayd. Rep. 1870, 473.

L. ruderale, var. *lasiocarpum.* Engelm.; Gray, Pl. Wright. 2. 15.

L. Texanum. Buckl. Proc. Acad. Philad. 1861, 449, fide Gray, same, 1862, 161.

L. lasiocarpum. Nutt.; Torr. & Gray, Fl. 1. 115. Walp. Rep. 1. 176. Dietr. 3. 666. Eat. & Wr. 296. Watson, Proc. Am. Acad. 11. 113. Brew. & Wats. l. c. 46.

L. latipes. Hook. Icon. **t. 41.** Torr. & Gray, Fl. 1. 116. Hook. & Arn. Bot. Beechey, 323. Walp. Rep. 1. 177. Eat. & Wr. 296. Dietr. 3. 667. Torrey, Mex. Bound. 34. Boland. Cat. 5. Brew. & Wats. Bot. Calif. 1. 45.

L. Menziesii. DC. Syst. 2. 539; Prodr. 1. 205. Spreng. Syst. 2. 868. Hook. Fl. Bor.-Am. 1. 68, excl. var. Don, Mill. 1. 219. Torr. & Gray, Fl. 1. 115, in part. Dietr. 3. 667. Boland. Cat. 5. Watson, l. c. 113. Brew. & Wats. l. c. 46.

L. Californicum. Nutt.; Torr. & Gray, Fl. 1. 115. Walp. Rep. 1. 176. Eat. & Wr. 296. Dietr. 3. 666. Torrey, Mex. Bound. 34. Boland. Cat. 5.

L. montanum. Nutt.; Torr. & Gray, Fl. 1. 116 & 669. Walp. Rep. 1. 176. Dietr 3. 666. Gray, Pl. Wright. 2. 15. Torrey, Pac. R. Rep. 7. 8. Anderson, Cat. 117. Watson, King's Rep. 5. 29. Coulter, Hayd. Rep. 1872, 761. Porter, Fl. Col. 10.

L. corymbosum. Hook. & Arn. Bot. Beechey, 323. Walp. Rep. 1. 177. Dietr. 3. 666. Durand, Fl. Utah, 159.

L. Utahviense. Regel, Act. Hort. Petrop. 1. 92.

L. nanum. Watson, King's Rep. 5. 30, **t. 4, f. 5–7.**

L. nitidum. Nutt.; Torr. & Gray, Fl. 1. 116. Walp. Rep. 1. 178. Dietr. 3. 670. Benth. Pl. Hartw. 297. Torrey, Pac. R. Rep. 4. 66 & 7. 8; Mex. Bound. 34. Newberry, Pac. R. Rep. 6. 66. Boland. Cat. 5. Brew. & Wats. Bot. Calif. 1. 46.

L. leiocarpum. Hook. & Arn. Bot. Beechey, 324; not DC.

L. oxycarpum. Torr. & Gray, Fl. 1. 116. Hook. & Arn. Bot. Beechey, 323. Walp. Rep. 1. 178. Dietr. 3. 670. Boland. Cat. 5. Brew. & Wats. l. c.

Var. (?) **strictum.** Watson, Bot. Calif. 1. 46.

L. RUDERALE, Linn. Gray, Genera, 1. 168, **t. 73, f. 8–10**; Manual, 74.

L. SATIVUM, Linn. Porter, Hayd. Rep. 1870, 473; Fl. Col. 10. Coulter, Hayd. Rep. 1872, 761.

L. sordidum. Gray, Pl. Wright. 1. 10 & 2. 15. Walp. Ann. 4. 213.

L. Virginicum. Linn. Spec. 645. Hill, Veg. Syst. 11, **t. 44, f. 3.** Walt. Fl. Car. 173? Ait. Hort. Kew. 2. 375. Willd. Spec. 3. 440. Michx. Fl. 2. 271. Persoon, 2. 188. Pursh, 435. Nutt. Genera, 2. 64. James, Cat. 185; Long's Exp. 2. 173. DC. Syst. 2. 538; Prodr. 1. 205. Elliott, 2. 140. Hook. Fl. Bor.-Am. 1. 69; Jour. Bot. 1. 192; Lond. Jour. Bot. 6. 71. Don, Mill. 1. 219. Darling. Fl. Cestr. 380. Torr. & Gray, Fl. 1. 115. Torrey, Fl. N. Y. 1. 64. Gray, Genera, 1. 168, **t. 73**; Pac. R. Rep. 12. 41; Manual, 74. Scheele, Röm. Texas, 437. Seem. Bot. Herald, 268. Parry, Pl. Minn. 609. Griseb. Fl. W. Ind. 14. Chapman, 30. Pl. Bourgeau, 263. Leggett, Torr. Bull. 1. 5.

Clypeola Caroliniana. Walt. Fl. Car. 173.

L. Iberis. Schkuhr, Handb. 2. 222, **t. 180.**

Thlaspi Virginianum. Poir. Dict. 7. 544. Hornem. Hort. Hafn. 605.

L. triandrum. Stokes, Bot. Med. 3. 426.

Dilepticum diffusum & *præcox.* Raf. Fl. Lud. 85; Med. Bot. 2. 237.

Cynocardamum Virginicum. Webb & Berth. Hist. Nat. Canar. 1. 97. Spach, Hist. Veg. 6. 554.

L. Wrightii. Gray, Pl. Wright. 2. 15; Ives's Rep. 7. Torr. & Gray, Pac. R. Rep. 2. 160. Torrey, same, 4. 67; Mex. Bound. 34. Walp. Ann. 4. 214.

LYROCARPA Coulteri. Hook. & Harv. in Lond. Jour. Bot. 4. 76, **t. 4.** Walp. Rep. 5. 37. Gray, Proc. Am. Acad. 5. 153. Baill. Hist. Pl. 3. 282.

NASTURTIUM amphibium. R. Br. in Ait. f. Hort. Kew. 4. 110. See syn. in DC. Syst. 2. 196. — Hook. Fl. Bor.-Am. 1. 39. Beck, Bot. 32. Torr. & Gray, Fl. 1. 73. Hook. f. Arct. Pl. 284.

Sisymbrium amphibium. Linn. Spec. 657. Pursh, 440. Nutt. Genera, 2. 67. Elliott, 2. 146. Bigel. Fl. Bost. 253.

S. Indicum. Walt. Fl. Car. 174.

N. ARMORACIA, Fries. Gray, Manual, 65.

Cochlearia Armoracia, Linn. Gray, Manual, 3 ed. 39.

Armoracia rusticana, Rupp. Wood, Bot. & Fl. 41.

N. curvisiliqua. Nutt.; Torr. & Gray, Fl. 1. 73. Walp. Rep. 1. 127. Dietr. 3. 685. Hook. in Lond. Jour. Bot. 6. 69. Torrey, Pac. R. Rep. 4. 65 & 7. 7; Mex. Bound. 33; Bot. Wilkes, 226. Cooper, Pac. R. Rep. 12. 56. Boland. Cat. 4. Coulter, Hayd. Rep 1872, 760. Gray, Proc. Am. Acad. 8. 376.

Sisymbrium curvisiliqua. Hook. Fl. 1. 61. Hook. & Arn. Bot. Beechey, 323.

N. cernuum & *polymorphum.* Nutt.; Torr. & Gray, Fl. 1. 74. Walp. Rep. 1. 127.

Var. **lyratum.** Watson, Bot. Calif. 1. 43.

N. lyratum. Nutt.; Torr. & Gray, Fl. 1. 73 & 666. Walp. Rep. 1. 127. Dietr. 3. 685. Newberry, Pac. R. Rep. 6. 66. Gray, Proc. Am. Acad. 8. 376. Torrey, Bot. Wilkes, 226.

N. obtusum. Torrey, Pac. R. Rep. 4. 65.

N. lacustre. Gray, Genera, 1. 132; Manual, 65. Chapman, 25.

? *Cochlearia aquatica.* Eaton, Manual, 5 ed. 181.

N. natans. Hook. Fl. Bor.-Am. 1. 39, not DC.; Journ. Bot. 1. 190. Beck, Bot. 32. Gray, Manual, 1 ed. 32.

N. natans, var. *Americanum.* Gray, Ann. Lyc. N. Y. 3. 223. Torr. & Gray, Fl. 1. 75. Walp. Rep. 1. 127. Torrey, Fl. N. Y. 1. 52. Parry, Pl. Minn. 609.

Armoracia Americana. Hook. & Arn. Brit. Fl. 7. ed. 29. Wood, Bot. & Fl. 42.

N. limosum. Nutt.; Torr. & Gray, Fl. 1. 74. Walp. Rep. 1. 127. Dietr. 3. 685. Gray, Pac. R. Rep. 12. 41. Wood, Cl.-Book, 228; Bot. & Fl. 31.

N. obtusum. Nutt.; Torr. & Gray, Fl. 1. 74. Walp. Rep. 1. 127. Dietr. 3. 685. Eat. & Wr. 326. Gray, Pl. Fendl. 6; Pl. Wright. 2. 10; Pl. Thurb. 299; Pac. R. Rep. 12. 41; Proc. Acad. Philad. 1863, 57. Torrey, Pac. R. Rep. 5. 359; Mex. Bound. 33. Porter, Hayd. Rep. 1870, 473; 1871, 478; Fl. Col. 6. Watson, King's Rep. 5. 15. Coulter, Hayd. Rep. 1872, 760.

Var. (?) **alpinum.** Watson, King's Rep. 5. 15.

N. OFFICINALE, R. Br. Cham. & Schlecht. in Linn. 1. 15. Hook. Fl. Bor.-Am. 1. 39. Beck, Bot. 31. Torr. & Gray, Fl. 1. 72. Chapman, 25. Gray, Manual, 64; Hall's Pl. Tex. 3. Anderson, Cat. 117. Boland. Cat. 4. Watson, King's Rep. 5. 15. Coulter, Hayd. Rep. 1872, 760. Porter, Fl. Col. 6.

Sisymbrium Nasturtium, Linn. Walt. Fl. Car. 174. Pursh, 440. Nutt. Genera, 2. 67. Elliott, 2. 145.

N. palustre, DC. See syn. in DC. Syst. 2. 191; Ledeb. Fl. Ross. 1. 112; Regel, Fl. Ost-Sib. 1. 151. — Richards. Frankl. Journ. 15. Cham. & Schlecht. in Linn. 1. 15. Raf. Med. Bot. 2. 39, **f. 65.** Hook. Fl. Bor.-Am. 1. 39; Jour. Bot. 1. 190; Lond. Jour. Bot. 6. 69. Beck, Bot. 32. Torr. & Gray, Fl. 1. 73. Hook. & Arn. Bot. Beechey, 135. Torrey, Fl. N. Y. 1. 51; Nicol. Rep. 145; Frem. Rep. 87; Pac. R. Rep. 4. 64; Mex. Bound. 33; Bot. Wilkes, 226. Gray, Pl. Fendl. 6; Pl. Wright. 2. 10; Genera, 1. 132, **t. 53, f. 1–5**; Pac. R. Rep. 12. 41; Manual, 64; Proc. Am. Acad. 8. 376. Seem. Bot. Herald, 51. Parry, Pl. Minn. 609. Lange, Pl. Grönl. 130. Cooper, Pac. R. Rep. 12. 56. Chapman, 25. Hook. f. Arct. Pl. 284. Rothr. Alask. 443. Watson, King's Rep. 5. 15. Porter, Fl. Col. 6.

Sisymbrium palustre, Linn. Pursh, 440. Elliott, 2. 145.

Camelina barbareæfolia. DC. Syst. 2 517; Prodr. 1. 201. Deless. Icon. Sel. 2, **t. 70.** Cham. & Schlecht. in Linn. 1. 29. Hook. Fl. Bor.-Am. 1. 65. Torr. & Gray, Fl. 1. 111.

Tetrapoma barbareæfolium, Turcz., & *T. Kruianum.* Fisch. & Mey. in Ind. Sem. Petr. 1. 39 (Linn. Litt.-Ber. 1836, 104). Baill. Hist. Pl. 3. 186 & 232, **f. 210–213.**

Rorippa nasturtioides. Spach, Hist. Veg. 6. 506.

Tetrapoma pyriforme. Seem. Bot. Herald, 24, **t. 2.** Rothr. Alask. 443.

N. lyratum. Cooper, Pac. R. Rep. 12. 51.

Var. **hispidum.** Fisch. & Mey. Ind. Sem. Petr. 3. 41 (Linn. Litt.-Ber. 1838, 101). Gray, Pl. Fendl. 6; Manual, 64. Watson, King's Rep. 5. 15. Porter, Hayd. Rep. 1871, 478. Coulter, same, 1872, 760.

Brachylobus hispidus. Desv. Jour. 3. 183.

Sisymbrium hispidum. Poir. Suppl. 5. 161.

Nasturtium hispidum. DC. Syst. 2. 201; Prodr. 1. 139. Don, Mill. 1. 158. Torr. & Gray, Fl. 1. 74. Torrey, Fl. N. Y. 1. 51. Gray, Manual, 1 ed. 32.

N. sessiliflorum. Nutt.; Torr. & Gray, Fl. 1. 73 & 666. Walp. Rep. 1. 127. Dietr. 3. 685. Gray, Genera, 1. 132, **t. 53, f. 6–8**; Pac. R. Rep. 12. 40; Manual, 64; Hall's Pl. Tex. 3. Torrey, Mex. Bound. 33. Chapman, 24.

N. sinuatum. Nutt.; Torr. & Gray, Fl. 1. 73 & 666. Walp. Rep. 1. 27. Dietr. 3. 685. Torrey, Nicol. Rep. 145. Gray, Pl. Fendl. 6; Ives's Rep. 6; Manual, 64. Parry, Pl. Minn. 609. Porter, Hayd. Rep. 1870, 473; Fl Col. 6. Watson, King's Rep. 5. 15.

N. sphærocarpum. Gray, Pl. Fendl. 6. Walp. Ann. 2. 33.

N. SYLVESTRE, R. Br. Torr. & Gray, Fl. 1. 74. Nees, Pl. Wied, 4. Gray, Manual, 64.

Sisymbrium vulgare. Nutt. Genera, 2. 68.

N. tanacetifolium. Hook. & Arn. in Hook. Jour. Bot. 1. 190. Torr. & Gray, Fl. 1. 72. Walp. Rep. 1. 126. Engelm. & Gray, Pl. Lindh. 33. Gray, Hall's Pl. Tex. 3. Chapman, 24. Wood, Cl.-Book, 228; Bot. & Fl. 36.

Sisymbrium tanacetifolium. Walt. Fl. Car. 174.

Cardamine teres. Michx. Fl. 2. 29. Persoon, 2. 195. Poir. Suppl. 2. 394. DC. Syst. 2. 259; Prodr. 1. 151. Don, Mill. 1. 169. Beck, Bot. 31. Gray, Manual, 1 ed. 34.

Sisymbrium (?) *teres.* Torr. & Gray, Fl. 1. 93. Fournier, Sisymb. 100. Gray, Am. Jour. Sci. 2. 42. 278.

N. palustre, var. *tanacetifolium.* DC. Syst. 2. 192; Prodr. 1. 137. Don, Mill. 1. 156.

Sisymbrium Walteri. Elliott, 2. 146.

N. micropetalum. Fisch. & Mey. Ind. Sem. Petr. 3. 41 (Linn, Litt.-Ber. 1838, 100). Dietr. 3. 686.

N. Walteri. Wood, Cl.-Book, 228; Bot. & Fl. 36.

PARRYA arctica. R. Br. in Parry's 1st Voy. 269, **t. B** (Flora, 7², Beil. 75). Hook. in Parry's 2d Voy. 388; Fl. Bor.-Am. 1. 47. Don, Mill. 1. 173. Torr. & Gray, Fl. 1. 88. Walp. Rep. 1. 134. Dietr. 3. 701. Seem Bot. Herald, 54. Hook. f. in Jour. Linn. Soc. 1. 121; Arct. Pl. 285.

Neuroloma arcticum. Spreng Syst. 2. 888.

P. nudicaulis, var. *a. arctica.* Regel in Reg. & Herd. Pl. Seminov. Suppl. 2. 20.

P. arenicola. Hook. f. Arct. Pl. 285 & 315.

Eutrema arenicola. Richards.; Hook. Fl. Bor.-Am. 1. 67, **t. 24**. Torr. & Gray, Fl. 1. 112.

P. nudicaulis. Regel, Fl. Ost-Sib. 1. 176, and Regel & Herd. l. c. 2. 20, with syn.

Matthiola nudicaulis. Trautv. in Trud. Petr. 1. 51 (Trim. Jour. Bot. 1. 214).

Vars. **glabra** & **aspera.** Regel in Pl. Seminov. l. c. 22 & 24.

Cardamine articulata. Pursh, 439. DC. Syst. 2. 268; Prodr. 1. 154. Don, Mill. 1. 171. Dietr. 3. 699.

P. macrocarpa. R. Br. in Parry's 1st Voy. 270. Cham. & Schlecht. in Linn. 1. 18. Hook. Fl. Bor.-Am. 1. 47, **t. 15**. Don, Mill. 1. 173. Torr. & Gray, Fl. 1. 88. Hook. & Arn. Bot. Beechey, 121. Ledeb. Fl. Ross. 1. 131, with syn. Turcz. Fl. Baic. 1. 124. Walp. Rep. 1. 134. Dietr. 3. 701. Trautv. in Pl. Middend. 1. 55. Seem. Bot. Herald, 24 & 51. Regel, Gart. Fl. 11. 235, **t. 368**. Hook. f. Arct. Pl. 285. Rothr. Alask. 443. Watson, King's Rep. 5. 14.

PHYSARIA didymocarpa. Gray, Genera, 1. 162; Am. Jour. Sci. 2. 33. 243; Proc. Acad. Philad. 1863, 58. Torrey, Stansb. Rep. 384; Bot. Wilkes, 232. Porter, Hayd. Rep. 1870, 473; Fl. Col. 7. Watson, King's Rep. 5. 20.

Vesicaria didymocarpa. Hook. Fl. Bor.-Am. 1. 48, t. **16.** Don, Mill. 1. 177. Torr. & Gray, Fl. 1. 102. Walp. Rep. 1. 141. Dietr. 3. 638. Torrey, Frem. Rep. 87. Pl. Bourgeau, 254.

P. Geyeri. Gray, Genera, 1. 162. Torrey, Bot. Wilkes, 232.

Vesicaria Geyeri. Hook. in Lond. Jour. Bot. 6. 70, t. **5.** Walp. Ann. 1. 32.

P. Newberryi. Gray, Ives's Rep. 6; Am. Jour. Sci. 2. 33. 243.

PLATYSPERMUM scapigerum. Hook. Fl. Bor.-Am. 1. 68, t. **18, f. B**; Lond. Jour. Bot. 6. 71. Don, Mill. 1. 193. Torr. & Gray, Fl. 1. 112 & 668. Dietr. 3. 659. Baill. Hist. Pl. 3. 270. Watson, King's Rep. 5. 20. Torr. Bot. Wilkes, 234.

RAPHANUS Raphanistrum, Linn. Beck, Bot. 34. Torr. & Gray, Fl. 1. 120. Torrey, Fl. N. Y. 1. 66; Mex. Bound. 35. Hook. f. Arct. Pl. 286. Gray, Manual, 75. Boland. Cat. 5.

R. sativus, Linn. Gray, Manual, 75. Coulter, Hayd. Rep. 1872, 761.

SELENIA aurea. Nutt. in Jour. Acad. Philad. 5. 132, t. **6** (Linn. Litt.-Ber. 1830, 62). Don, Mill. 1. 269. Torr. & Gray, Fl. 1. 99. Dietr. 3. 654. Gray, Genera, 1. 158, t. **67.**

S. dissecta. Torr. & Gray, Pac. R. Rep. 2. 160, t. **1** (Flora, 1858, 624). Walp. Ann. 7. 109.

SENEBIERA Coronopus, Poir. Torr. & Gray Fl. 1. 115. A. H. Smith, Proc. Acad. Philad. 1867, 18. Gray, Manual, 75.

Coronopus Ruellii, All. Pursh, 435. Elliott, 2. 139.

S. didyma, Pers. Chapman, 30. Smith, l. c. 17. Gray, Manual, 74. Boland. Cat. 5.

Biscutella apetala. Walt. Fl. Car. 174.

Cochlearia humifusa. Michx. Fl. 2. 27.

Senebiera incisa. Willd. Enum. 668.

Coronopus didymus. Pursh, 435. Nutt. Genera, 2. 65. James, Long's Exped. 2. 339. Elliott, 2. 139.

Coronopus incisus. Hornem. Hort. Hafn. 599.

Senebiera pinnatifida. DC. Syst. 2. 523; Prodr. 1. 203. Hook. Jour. Bot. 1. 192. Fl. Antarct. 1. 241. Torr. & Gray, Fl. 1. 114. Gray, Genera, 1. 166, t. **72**

SISYMBRIUM acutangulum, DC. Brew. & Wats. Fl. Calif. 1. 41.

S. auriculatum. Gray, Pl. Wright. 1. 8 & 2. 12. Walp. Ann. 4. 210. Fournier. Sisymb. 102.

S. canescens. Nutt. Genera, 2. 68. DC. Syst. 2. 475; Prodr. 1. 194. Richards. Frankl. Journ. 16. Elliott, 2. 147. Spreng. Syst. 2. 904. Graham, Edinb. Phil. Jour. 1828, 380 (Linn. Litt.-Ber. 1830, 128). Torrey, Ann. Lyc. N. Y. 2. 166; Nicol. Rep. 145; Stansb. Rep. 384; Pac. R. Rep. 7. 7; Mex. Bound. 33. Hook. Fl. Bor.-Am. 1. 62; Lond. Jour. Bot. 6. 69. Don, Mill. 1. 207. Darling. Fl. Cestr. 386. Torr. & Gray, Fl. 1. 92; Pac. R. Rep. 2. 159. Hook. & Arn. Bot. Beechey, 122. Walp. Rep. 1. 166. Dietr. 3. 708. Engelm. & Gray, Pl. Lindh. 33. Gray, Genera, 1. 152, t. **64**; Pl. Fendl. 8; Pl. Wright. 2. 12; Pac. R. Rep. 12. 41; Ives's Rep. 6; Am. Jour. Sci. 2. 33. 243 & 2. 42. 279; Manual, 70. Seem. Bot. Herald, 51. Parry, Pl. Minn. 609. Durand, Fl. Utah, 159. Cooper, Pac. R. Rep. 12. 56. Chapman, 28. Pl. Bourgeau, 254. Hook. f. Arct. Pl. 286 & 319. Fournier, Sisymb. 65. Rothr. Alask. 443. Boland. Cat. 5. Watson, King's Rep. 5. 23. Porter, Hayd. Rep. 1871, 478; Fl. Col. 8. Coulter, Hayd. Rep. 1872, 760.

Erysimum pinnatum. Walt. Fl. Car. 174.

Cardamine (?) *multifida.* Pursh, 440. Nutt. Genera, 1. 67. Don, Mill. 1. 170. Dietr. 3. 699.

S. Sophia. Pursh, 440, not Linn. Gray, Proc. Acad. Philad. 1863, 57, in part.

Cardamine (?) *Menziesii.* DC. Syst. 2. 267; Prodr. 1. 153. Don, Mill. 1. 170. Dietr. 3. 699.

Nasturtium multifidum & Menziesii. Spreng. Syst. 2. 883.

S. incanum. Bernh.; Fisch. & Mey. in Ind. Sem. Petr. 1. 38 (Ann. Sci. Nat. 2. 1. 337; Linn. Litt.-Ber. 1835, 103).

S. Sophia, var. *canescens.* Hook. Fl. Antarct. 1. 242.

Var. δ (**brachycarpum**). Torr. & Gray, Fl. 1. 92. Anderson, Cat. 117.

S. brachycarpon. Richards. Frankl. Journ. 16. DC. Prodr. 1. 194. Graham, Edinb. Phil. Jour. 1828, 379. Hook. Fl. Bor.-Am. 1. 62. Don, Mill. 1. 207. Nees, Pl. Neuwied, 4. Fournier, Sisymb. 65, in part.

S. diffusum. Gray, Pl. Wright. 1. 8 & 2. 12. Walp. Ann. 4. 210. Torrey, Mex. Bound. 33. Fournier, Sisymb. 136.

S. glaucum. Nutt.; Torr. & Gray, Fl. 1. 93. Walp. Rep. 1. 166. Eat. & Wr. 430. Dietr. 3. 710. Fournier, Sisymb. 125. Porter, Fl. Col. 8.

S. humile. C. A. Meyer in Ledeb. Fl. Alt. 3. 137. See syn. in Ledeb. Fl. Ross. 1. 184; Fournier, Sisymb. 136. — Ledeb. Icon. t. **147.** Hook. l. c. Torr. & Gray, Fl. 1. 92. Walp. Rep. 1. 164. Seem. Bot. Herald, 51. Hook. f. Arct. Pl. 286.

S. incisum. Engelm.; Gray, Pl. Fendl. 8; Am. Journ. Sci. 2. 42. 279; Manual, 70. Walp. Ann. 2. 48. Torrey, Pac. R. Rep. 4. 66. Fournier, Sisymb. 64. Anderson, Cat. 117. Brew. & Wats. Bot. Calif. 1. 41.

Sinapis, var. *Californica.* Gray, Proc. Am. Acad. 6. 520. Anderson, Cat. 117.

Sisymbrium californicum. Watson, King's Rep. 5. 23; fide Gray, Am. Journ. Sci. 3. 3. 150.

Var. **Hartwegianum.** Watson, Bot. Calif. 1. 41.

S. canescens. Benth. Pl. Hartw. 9. Pl. Bourgeau, 254, in part.

S. canescens, var. *brevipes.* Torr. & Gray, Fl. 1. 92.

S. Sophia. Gray, Proc. Acad. Philad. 1863, 57, in part. Torr. Bot. Wilkes, 230.

S. Hartwegianum. Fournier, Sisymb. 66. Gray, Am. Journ. Sci. 2. 42. 279.

? *S. brachycarpum.* Hook. & Arn. Bot. Beechey, 323. Fournier, l. c. 65, in part.

Var. **filipes.** Gray, Fl. Fendl. 8. Brew. & Wats. l. c.

S. longipedicellatum. Fournier, Sisymb. 59, excl. syn.

S. linifolium. Nutt.; Torr. & Gray, Fl. 1. 91 & 667. Walp. Rep. 1. 165. Eat. & Wr. 430. Dietr. 3. 707. Fournier, Sisymb. 106.

S. junceum. Hook. Fl. Bor. Am. 1. 61; not Bieb. Torr. & Gray, Fl. 1. 91. Eat. & Wr. 429. Watson, King's Rep. 5. 23. Porter, Hayd. Rep. 1871, 478. Coulter, same, 1872, 760. Brew. & Wats. l. c.

Nasturtium linifolium & pumilum. Nutt. in Journ. Acad. Philad. 7. 12.

S. pygmæum. Nutt.; Torr. & Gray, Fl. 1. 91 & 667. Walp. Rep. 1. 165. Eat. & Wr. 430. Dietr. 3. 707. Fournier, Sisymb. 100. Boland. Cat. 5?

Erysimum (?) *glaberrimum.* Hook. & Arn. Bot. Beechey, 323.

S. OFFICINALE, Scop. Hook. Fl. Bor.-Am. 1. 61. Beck, Bot. 33. Darling. Fl. Cestr. 386. Torr. & Gray, Fl. 1. 91. Torrey, Fl. N. Y. 1. 50; Pac. R. Rep. 4. 66. Chapman, 28. Gray, Manual, 70. Boland. Cat. 5. Brew. & Wats. l. c. 41.

Erysimum officinale, Linn. Michx. Fl. 2. 31. Pursh, 436. Elliott, 2. 148.

? *S. Niagarense.* Fournier, Sisymb. 85; fide Gray, Am. Journ. Sci. 2. 42. 278.

S. pauciflorum. Nutt.; Torr. & Gray, Fl. 1. 93. Walp. Rep. 1. 166. Dietr. 3. 710. Fournier, Sisymb. 127.

S. reflexum. Nutt. Pl. Gambel, in Proc. Acad. Philad. 4. 26 & Jour. 2. 1. 183.

Turritis (?) lasiophylla. Hook. & Arn. Bot. Beechey, 321. Torr. & Gray, Fl. 1. 166. Walp. Rep. 1. 130. Dietr. 3. 689.

S. deflexum. Harv.; Torrey, Pac. R. Rep. 4. 66, 5. 359 & 7. 7. Gray, Ives's Rep. 6; Proc. Am. Acad. 8. 377. Fournier, Sisymb. 108. Boland. Cat. 5.

S. salsugineum, Pall. See syn. in Ledeb. Fl. Ross. 1. 185; Fournier, Sisymb. 125. — Hook. f. & Thomp. in Jour. Linn. Soc. 5. 159. Hook. f. Arct. Pl. 286 & 319.

Turritis diffusa. Hook. Fl. Bor.-Am. 1. 41. Don, Mill. 1. 161. Torr. & Gray, Fl. 1. 79. Walp. Rep. 1. 130. Dietr. 3. 689.

S. Sophia, Linn. Beck, Bot. 33. Torr. & Gray, Fl. 1. 92. Hook. f. Arct. Pl. 286 & 319. Fournier, Bull. Soc. Bot. France, 11. 358. Gray, Am. Jour. Sci. 2. 42. 279; Manual, 70.

Var. Richards. Frankl. Journ. 16.

S. Sophia. Cham. & Schlecht. in Linn. 1. 28.

S. sophioides. Fisch.; Hook. Fl. Bor.-Am. 1. 61, **t. 20.** Torr. & Gray, Fl. 1. 92. Hook. & Arn. Bot. Beechey, 122. Ledeb. Fl. Ross. 1. 181. Walp. Rep. 1. 165. Dietr. 3. 708. Seem. Bot. Herald, 24 & 51. Fournier, Sisymb. 58.

S. Thaliana, Gay. Hook. Fl. Bor.-Am. 1. 63. Darling. Fl. Cestr. 388. Torr. & Gray, Fl. 1. 93. Torrey, Fl. N. Y. 1. 60. Chapman, 28. Fournier, Sisymb. 126. Gray, Manual, 67 & 70.

Arabis Thaliana, Linn. Pursh, 437. Beck, Bot. 29. Hook. f. Arct. Pl. 284.

A. parviflora. Raf. Am. Mag. 1. 43.

S. virgatum. Nutt.; Torr. & Gray, Fl. 1. 93. Walp. Rep. 1. 166. Dietr. 3. 710. Fournier, Sisymb. 105. Gray, Proc. Acad. Philad. 1863, 57.

S. alpinum: Braya alpina.
amphibium: Nasturtium amphibium.
arabidoides: Arabis lyrata.
brachycarpum: canescens, incisum.
Californicum: canescens, incisum.
cheiranthoides: Erysimum cheiranthoides.
curvisiliqua: Nasturtium curvisiliqua.
deflexum: reflexum.
dentatum: Arabis dentata.
Edwardsii: Eutrema Edwardsii.
Hartwegianum: incisum.
hispidum: Nasturtium palustre.
humifusum: Arabis lyrata.
incanum: canescens.
S. Indicum: Nasturtium amphibium.
juncum: linifolium.
longepedicellatum: incisum.
lyrata: Arabis lyrata.
Nasturtium: Nasturtium officinale.
Niagarense: officinale.
palustre: Nasturtium palustre.
pygmæum: linifolium, Cheiranthus pygmæus.
reflexum: Arabis Holbœllii.
Sophia: canescens, incisum.
sophioides: Sophia.
tanacetifolium, teres & Walteri: Nasturtium tanacetifolium.
vulgare: Nasturtium sylvestre.

SMELOWSKIA calycina. C. A. Meyer in Ledeb. Fl. Alt. 3. 170. See syn under *Hutchinsia* in Ledeb. Fl. Ross. 1. 201; Regel & Herd. Pl. Semenov. 2. 143 — Benth. & Hook. Genera, 1. 79. Pl. Bourgeau, 254. Gray, Proc. Acad. Philad 1863, 58. Watson, King's Rep. 5. 24. Porter, Hayd. Rep. 1871, 478; Fl. Colo; Coulter, Hayd. Rep. 1872, 761. Brew. & Wats. Bot. Calif. 1. 42.

Hutchinsia calycina. Desv. Journ. Bot. 3. 108. Spreng. Syst. 2. 863. Hook. Fl.

Bor.-Am. 1. 58, **t. 17, f. B.** Torr. & Gray, Fl. 1. 114. Hook. & Arn. Bot. Beechey, 122. Seem. Bot. Herald, 25. Hook. f. Arct. Pl. 286. Rothr. Alask. 443.

H. calycina, var. *Americana*. Regel & Herder, l. c. 145.

STANLEYA pinnatifida. Nutt. Genera, 2. 71. DC. Syst. 2. 512; Prodr. 1. 200. James, Cat. 185; Long's Exped. 2. 345. Spreng. Syst. 2. 909. Don, Mill. 1. 214. Torr. & Gray, Fl. 1. 97. Dietr. 3. 717. Nees, Pl. Wied, 4. Torrey, Nicol. Rep. 145. Gray, Genera, 1. 154, **t. 65**; Pl. Fendl. 9; Pac. R. Rep. 12. 41. Watson, King's Rep. 5. 24. Porter, Fl. Col. 9.

Cleome pinnata. Pursh, 739. Bradbury, Cat. 337.

S. integrifolia. James, Cat. 185; Long's Exped. 2. 345. Torrey, Ann. Lyc. N. Y. 2. 166; Sitgr. Rep. 156, **t. 1.** Torr. & Gray, Fl. 1. 97. Walp. Rep. 1. 173. Dietr. 3. 717. Dur. & Hilg. in Jour. Acad. Philad. 2. 3. 38; Pac. R. Rep. 5. 5. Gray, Pac. R. Rep. 12. 41; Proc. Acad. Philad. 1863, 58.

S. heterophylla. Nutt.; Torr. & Gray, Fl. 1. 97. Walp. Rep. 1. 173. Dietr. 3. 717. Torrey, Sitgr. Rep. 156.

S. fruticosa. Nutt. Pl. Gamb. in Proc. Acad. Philad. 4. 23, & Jour. 2. 1. 180.

S. tomentosa. Parry, Am. Naturalist, 8. 212.

S. viridiflora. Nutt.; Torr. & Gray, Fl. 1. 98. Walp. Rep. 1. 173. Dietr. 3. 717. Gray, Pl. Fendl. 9. Watson, King's Rep. 5. 25. Porter, Hayd. Rep. 1871, 478; Coulter, same, 1872, 761.

STREPTANTHUS bracteatus. Gray, Pl. Lindh. 143; Genera, 1. 146, **t. 60**; Pl. Wright. 1. 7 & 2. 11; Proc. Am. Acad. 6. 187; Hall's Pl. Tex. 3. Walp. Ann. 2. 33. Watson, King's Rep. 5. 429.

S. Breweri. Gray, Proc. Calif. Acad. 3. 101; Proc. Am. Acad. 6. 184. Anderson, Cat. 117. Boland. Cat. 5. Watson, King's Rep. 5. 429.

S. carinatus. Wright.; Gray, Pl. Wright. 2. 11; Proc. Am. Acad. 6. 183. Torr. & Gray, Pac. R. Rep. 2. 159. Walp. Ann. 4. 192. Torrey, Mex. Bound. 32. Watson, King's Rep. 5. 429.

S. cordatus. Nutt.; Torr. & Gray, Fl. 1. 77. Walp. Rep. 1. 129. Dietr. 3. 739. Gray, Ives's Rep. 6; Proc. Am. Acad. 6. 183. Watson, King's Rep. 5. 19 & 429. Coulter, Hayd. Rep. 1872, 760.

S. flavescens. Hook. Icon. **t. 44.** Torr. & Gray, Fl. 1. 77. Hook. & Arn. Bot. Beechey, 322. Walp. Rep. 1. 129. Dietr. 3. 739. Gray, Proc. Am. Acad. 6. 186, in part. Boland. Cat. 5. Watson, King's Rep. 5. 430.

S. glandulosus. Hook. Icon. **t. 40.** Torr. & Gray, Fl. 1. 77. Hook. & Arn. Bot. Beechey, 322. Walp. Rep. 1. 129. Dietr. 3. 739. Torrey, Mex. Bound. 33. Gray, Proc. Am. Acad. 6. 185. Boland. Cat. 5. Watson, King's Rep. 5. 430.

S. heterophyllus. Nutt.; Torr. & Gray, Fl. 1. 77 & 666. Walp. Rep. 1. 129. Dietr. 3. 739. Watson, King's Rep. 5. 25 & 430.

S. hispidus. Gray, Proc. Calif. Acad. 3. 101; Proc. Am. Acad. 6. 186. Boland. Cat. 5. Watson, King's Rep. 5. 430.

S. hyacinthoides. Hook. Bot. Mag. **t. 3516.** Torr. & Gray, Fl. 1. 78. Walp. Rep. 1. 129. Dietr. 3. 739. Engelm. & Gray, Pl. Lindh. 3. & 34. Gray, Genera, 1. 146, **t. 61**; Proc. Am. Acad. 6. 185; Hall's Pl. Tex. 3. Torrey, Marcy's Rep. 280. Watson, King's Rep. 5. 429. Young, Fl. Texas, 161.

S. glabratus. Buckley, Proc. Acad. Philad. 1861, 448, fide Gray, same, 1862, 101. Walp. Ann. 7. 194.

S. maculatus. Nutt. in Jour. Acad. Philad. 5. 134, **t. 7** (Linn. Litt.-Ber. 1830, 5). Don, Mill. 1. 209. Torr. & Gray, Fl. 1. 76. Walp. Rep. 1. 128. Dietr.

3. 729. Gray, Pl. Wright. 2. 11; Proc. Am. Acad. 6. 183. Watson, King's Rep. 5. 429. Young, Fl. Texas, 161.

? *Brassica Washitana.* Muhl. Cat. 63. Nutt. Genera, 2. 72.

? *Stanleya Washitana.* DC. Syst. 2. 512.

Streptanthus obtusifolius. Hook. Bot. Mag. **t. 331'** (Ann. Sci. Nat. 2. 5. 290). Torr. & Gray, Fl. 1. 76. Walp. Rep. 1. 128. Dietr. 3. 729. Gray, Genera, 1. 145, **t. 60** (pod).

S. platycarpus. Gray, Pl. Wright. 2. 10; Proc. Am. Acad. 6. 183. Walp. Ann. 4. 192. Torrey, Mex. Bound. 32. Watson, King's Rep. 5. 429.

S. polygaloides. Gray, Proc. Am. Acad. 6. 519. Watson, King's Rep. 5. 430.

S. repandus. Nutt.; Torr. & Gray, Fl. 1. 77. Walp. Rep. 1. 129. Dietr. 3. 730. Gray, Proc. Am. Acad. 6. 186. Watson, King's Rep. 5. 430. Probably an *Arabis.*

S. tortuosus. Kellogg, Proc. Calif. Acad. 2. 152, **f. 46.** Gray, Proc. Am. Acad. 6. 184. Watson, King's Rep. 5. 429.

S. cordatus. Torrey, Pac. R. Rep. 4. 65, not Nutt.

S. angustifolius; Arabis Drummondii & Holbœllii.
arcuatus; Arabis arcuata.
Brazoensis; Arabis petiolaris.
cordatus; tortuosus.
crassicaulis; Caulanthus crassicaulis.
flavescens; Thelypodium flavescens.
glabrifolius; hyacinthoides.
heterophyllus; Caulanthus Coulteri.
S. linearifolius; Thelypodium linearifolium.
longifolius & micranthus; Thelypodium longifolium.
obtusifolius; maculatus.
petiolaris; Arabis petiolaris.
procerus; Caulanthus procerus.
sagittatus; Thelypodium Nuttallii.
virgatus; Arabis Holbœllii.

SUBULARIA aquatica. Linn. See syn. in DC. Syst. 2. 698. — Beck, Bot. 28. Torr. & Gray, Fl. 1. 113. Gray, Genera, 1. 164, **t. 71**; Manual, 73. Hook. f. Arct. Pl. 286 & 320.

SYNTHLIPSIS Berlandieri. Gray, Mex. Bound. 34. Walp. Ann. 7. 171. Baill. Hist. Pl. 3. 282.

S. Greggii. Gray, Pl. Fendl. 116; Mex. Bound. 34. Walp. Ann. 2. 40 & 7. 171.

THELYPODIUM brachycarpum. Torrey, Bot. Wilkes, 231, **t. 1.** Gray, Proc. Am. Acad. 6. 520. Anderson, Cat. 117. Watson, King's Rep. 5. 25 & 26.

T. flavescens. Watson, King's Rep. 5. 25.

Streptanthus flavescens. Torrey, Pac. R. Rep. 4. 65, not Hook. Watson, [illegible]

T. integrifolium. Endl. Gen. Pl. 876. Walp. Rep. 1. 172. Torrey, Emory, R[illegible] 87. Torr. & Gray, Pac. R. Rep. 2. 126. Watson, King's Rep. 5. 25. Porter, Hayd. Rep. 1871, 478; Fl. Col. 9.

Pachypodium integrifolium. Nutt.; Torr. & Gray, Fl. 1. 96 & 668. Hook. & Arn. Bot. Beechey, 321, **t. 74.** Dietr. 3. 702. Hook. in Lond. Jour. Bot. 6. [illegible] Durieu, Hilg. Pac. R. Rep. 5. 5.

T. laciniatum. Endl. Gen. Pl. 876. Walp. Rep. 1. 172. Watson, King's Rep. 5. 25 & 26. Gray, Proc. Am. Acad. 8. 377. Torrey, Bot. Wilkes, 231.

Macropodium laciniatum. Hook. Fl. Bor.-Am. 1. 43; Bot. Misc. 1. 341, **t. 68.** Don, Mill. 1. 166. Dietr. 3. 695.

Pachypodium laciniatum. Nutt.; Torr. & Gray, Fl. 1. 96. Dietr. 3. 702. as *P. ovatum.*

T. linearifolium. Watson, King's Rep. 5. 25. Porter, Fl. Col. 9.

Streptanthus linearifolius. Gray, Pl. Fendl. 7; Pl. Wright. 1. 7 & 2. 10. Walp. Ann. 2. 33. Torrey, Sitgr. Rep. 155; Pac. R. Rep. 4. 65; Mex. Bound. 32. Porter, Hayd. Rep. 1870, 473.

Iodanthus or *Pachypodium linearifolium.* Gray, Proc. Am. Acad. 6. 187.

T. longifolium. Watson, King's Rep. 5. 25.

Streptanthus longifolius. Benth. Pl. Hartw. 10. Walp. Rep. 1. 129. Dietr. 3. 730. Gray, Pl. Fendl. 6; Pl. Wright. 2. 10; Ives's Rep. 6; Proc. Am. Acad. 6. 187. Torrey, Pac. R. Rep. 4. 65; Mex. Bound. 33. Watson, King's Rep. 5. 19.

S. micranthus. Gray, Pl. Fendl. 7; Proc. Am. Acad. 6. 187. Walp. Ann. 2. 33.

T. Nuttallii. Watson, King's Rep. 5. 25 & 26. Coulter, Hayd. Rep. 1872, 761.

Streptanthus sagittatus. Nutt. in Jour. Acad. Philad. 7. 12. Torr. & Gray, Fl. 1. 76 & 666. Hook. & Arn. Bot. Beechey, 322. Walp. Rep. 1. 128. Dietr. 3. 729. Torrey, Stansb. Rep. 384. Durand, Fl. Utah, 159. Gray, Proc. Am. Acad. 6. 187. Watson, King's Rep. 5. 19.

T. pinnatifidum. Watson's King's Rep. 5. 25.

Hesperis (!) pinnatifida. Michx. Fl. 2. 31. Persoon, 2. 203. Poir. Suppl. 3. 197. Pursh 436. Nutt. Genera, 2. 69. DC. Syst. 2. 456; Prodr. 1. 190. Spreng. Syst. 2. 900. Don, Mill. 1. 204. Beck, Bot. 32.

Streptanthus hesperidoides. Torr. & Gray, Fl. 1. 72.

Iodanthus hesperidoides. Torr. & Gray; Gray, Genera, 1. 134, **t. 54**; Manual, 1. ed. 33. Chapman, 25. Wood, Bot. & Fl. 36.

Iodanthus pinnatifidus. Gray, Proc. Am. Acad. 6. 188. Watson, King's Rep. 5. 18.

Arabis hesperidoides. Gray, Manual, 68.

T. sagittatum. Endl. Gen. Pl. 876. Walp. Rep. 1. 172. Anderson, Cat. 117. Watson, King's Rep. 5. 25, in part. Brew. & Wats. Bot. Calif. 1. 37.

Pachypodium sagittatum. Nutt.; Torr. & Gray, Fl. 1. 97. Dietr. 3. 702.

T. Wrightii. Gray, Pl. Wright. 1. 7 & 2. 12. Torrey, Sitgr. Rep. 155; Pac. R. Rep. 4. 66; Mex. Bound. 33. Torr. & Gray, Pac. R. Rep. 2. 128. Porter, Fl. Col. 10.

THLASPI alpestre. Linn. Spec. 2. ed. 903. See syn. in DC. Syst. 2. 380. — Hook. Fl. Bor.-Am. 1. 58. Torr. & Gray, Fl. 1. 111. Hook. f. Arct. Pl. 286 & 29, referring it to *T. montanum*, Linn. Watson, King's Rep. 5. 31. Porter, Fl. Col. 10.

T. montanum. Hook. Fl. Bor.-Am. 1. 58, not Linn. Torr. & Gray, Fl. 1. 113.

T. montanum. DC. Syst. 2. 381. See syn. in Ledeb. Fl. Ross. 1. 164; Regel, Fl. Ost-Sib. 1. 201. — Hook. Fl. Bor.-Am. 1. 58; Lond. Jour. Bot. 7. 71. Nutt. in Jour. Acad. Philad. 7. 13. Torr. & Gray, Fl. 1. 114. Gray, Pl. Fendl. 6. Am. Jour. Sci. 2. 33. 242; Proc. Acad. Philad. 1863, 68. Coulter, Hayd. Rep. 1872, 761. Torrey, Bot. Wilkes, 233.

T. Fendleri. Gray, Pl. Wright. 2. 14; Ives's Rep. 7. Torrey, Mex. Bound. 34. Porter, Hayd. Rep. 1870, 473.

T. arvense. Linn. Pursh, 435. Hook. Fl. Bor.-Am. 1. 58. Beck, Bot. 25. Torr. & Gray, Fl. 1. 113. Torrey, Fl. N. Y. 1. 64. Hook. f. Arct. Pl. 286. Pl. Bourgeau, 55. Gray, Manual, 74.

THYSANOCARPUS curvipes. Hook. Fl. Bor.-Am. 1. 60, **t. 18, f. A**; Lond. Jour. Bot. 6. 71. Fisch. & Mey. Ind. Sem. Petr. 2. 25 (Hook. Comp. Bot. Mag. 2. 4; Ann. Sci. Nat. 2. 5. 181; Linn. Litt.-Ber. 1837, 121). Torr. & Gray, Fl. 1. 118.

Hook. & Arn. Bot. Beechey, 324. Walp. Rep. 1. 183. Gray, Proc. Am. Acad. 8. 377. Torrey, Bot. Wilkes, 234.

T. elegans. Fisch. & Mey. ll. cc. Hook. Icon. **t. 39.** Torr. & Gray, Fl. 1. 118. Hook. & Arn. Bot. Beechey, 324. Walp. Rep. 1. 183. Benth. Pl. Hartw. 297. Torrey, Pac. R. Rep. 4. 67; Mex. Bound. 35. Boland. Cat. 5. Watson, King's Rep. 5. 31.

T. pulchellus. Fisch. & Mey. ll. cc. Torr. & Gray, Fl. 1. 118. Hook. & Arn. Bot. Beechey, 324. Walp. Rep. 1. 183. Benth. Pl. Hartw. 297. Boland. Cat. 5.

T. runcinatus. Don, Mill. 1. 196. Dietr. 3. 661.

T. laciniatus. Nutt.; Torr. & Gray, Fl. 1. 118. Walp. Rep. 1. 183. Torrey, Pac. R. Rep. 4. 67; Mex. Bound. 35. Gray, Ives's Rep. 7. Watson, King's Rep. 5. 31.

T. crenatus. Nutt.; Torr. & Gray, Fl. 1. 118. Walp. Rep. 1. 183. Torrey, Pac. R. Rep. 4. 67; Mex. Bound. 35. Anderson, Cat. 118.

T. pusillus. Hook. Icon. **t. 42.** Torr. & Gray, Fl. 1. 119. Hook. & Arn. Bot. Beechey, 324. Walp. Rep. 1. 183. Torrey, Pac. R. Rep. 4. 67. Boland. Cat. 5. Watson, King's Rep. 5. 31. Gray, Proc. Am. Acad. 8. 377.

T. oblongifolius. Nutt.; Torr. & Gray, Fl. 1. 118. Walp. Rep. 1. 183. Hook. Lond. Jour. Bot. 6. 72. Torrey, Pac. R. Rep. 4. 67; Bot. Wilkes, 234. Boland. Cat. 5.

T. radians. Benth. Pl. Hartw. 297. Walp. Ann. 2. 52. Boland. Cat. 5. Watson, King's Rep. 5. 31.

TROPIDOCARPUM gracile. Hook. Icon. **t. 43.** Torr. & Gray, Fl. 1. 94. Walp. Rep. 1. 167. Dietr. 3. 701. Torrey, Pac. R. Rep. 4. 66.

T. scabriusculum. Hook. Icon. **t. 52.** Torr. & Gray, Fl. 1. 94. Walp. Rep. 1. 167. Dietr. 3. 701.

TURRITIS *brachycarpa;* Arabis Drummondii.
diffusa; Sisymbrium salsugineum.
glabra; Arabis perfoliata, Drummondii.
Grahami; Arabis Holböllii.
hirsuta; Arabis hirsuta.
laevigata; Arabis lævigata.
lasiophylla; Sisymbrium reflexum.
lyrata; Arabis Canadensis.
macrocarpa; Arabis perfoliata.
mollis; Arabis Holböllii.
oblongata & *ovata;* Arabis hirsuta.
patula; Arabis Holböllii, hirsuta.
perfoliata; Arabis perfoliata.
retrofracta; Arabis Holböllii.
salsuginosa; Sisymbrium salsugineum.
spathulata & *stricta;* Arabis Drummondii.

VESICARIA alpina. Nutt.; Torr. & Gray, Fl. 1. 102. Walp. Rep. 1. 141. Dietr. 3. 639. Hook. Lond. Jour. Bot. 6. 70. Gray, Pl. Lindh. 150. Porter, Hayd. Rep. 1871, 478.

V. arctica. Richards. Frankl. Journ. 15 & 2 ed. 26. DC. Prodr. 1. 159. Spreng. Syst. 2. 872. Hook. Bot. Mag. **t. 2882;** Fl. Bor.-Am. 1. 48; Bot. Misc. 3. 138. Don, Mill. 1. 176. Torr. & Gray, Fl. 1. 100. Dietr. 3. 638. Gray, Pl. Lindh. 149. Durand, Pl. Kane, 186. Lange, Pl. Grönl. 129. Hook. f. in Jour. Linn. Soc. 1. 124; Arct. Pl. 285. Dickie, Jour. Linn. Soc. 3. 110.

Alyssum arcticum. Wormsk.; Hornem. Fl. Dan. 9, **t. 1520.** DC. Syst. 2. 324.

V. arenosa. Richards. l. c. DC. Prodr. 1. 160. Spreng. Syst. 2. 872. Don, Mill. 1. 177. Dietr. 3. 638.

V. argentea. Schauer, Linn. 20. 720. Gray, Pl. Lindh. 150. — (Northern Mexico; Coulter, n. 691.)

V. argyrea. Gray, Pl. Lindh. 146 & 149; Pl. Wright. 1. 10. Walp. Ann. 2. 39. Torr. & Gray, Pac. R. Rep. 2. 159. Torrey, same, 4. 66.

V. auriculata. Engelm. & Gray, Pl. Lindh. 32. Gray, same, 148. Walp. Ann. 2. 38.

V. Berlandieri. Gray in Herb., ined. — (Berlandier, n. 819 & 884.)

V. densiflora. Gray, Pl. Lindh. 145 & 148; Pl. Wright. 1. 10. Walp. Ann. 2. 38. Torrey, Mex. Bound. 33.

V. Engelmanni. Gray, Genera, 1. 162, **t. 70**; Pl. Lindh. 144 & 149; Pl. Wright. 1. 10; Hall's Pl. Tex. 3. Walp. Ann. 2. 39.

V. pulchella. Kunth & Bouché, Ind. Sem. Berol. 1848, 15 (Ann. Sci. Nat. 3. 2. 229).

V. Fendleri. Gray, Pl. Fendl. 9; Pl. Lindh. 149; Ives's Rep. 6. Walp. Ann. 2. 39. Torr. & Gray, Pac. R. Rep. 2. 160. Torrey, same, 4. 66.

V. arctica. Gray, Pl. Fendl. 9.

V. stenophylla. Gray, Pl. Lindh. 149; Pl. Wright. 1. 10 & 2. 13. Walp. Ann. 2. 39 & 4. 196. Torrey, Sitgr. Rep. 155; Marcy's Rep. 280; Mex. Bound. 33. Porter, Fl. Col. 6.

V. Gordoni. Gray, Pl. Lindh. 149. Walp. Ann. 2. 38. Torr. & Gray, Pac. R. Rep. 2. 159. (*V. angustifolia.* Gray, Pl. Wright. 2. 13, in part.)

V. gracilis. Hook. Bot. Mag. under t. 3460, & **t. 3533.** Torr. & Gray, Fl. 1. 102; Pac. R. Rep. 2. 159. Walp. Rep. 1. 141; Ann. 2. 38. Eat. & Wr. 473. Dietr. 3. 638. Gray, Pl. Lindh. 147; Hall's Pl. Tex. 3.

V. angustifolia. Nutt.; Torr. & Gray, Fl. 1. 101; Pac. R. Rep. 2. 159. Walp. Rep. 1. 141. Eat. & Wr. 473. Dietr. 3. 639. Gray, Pl. Lindh. 145 & 148; Pl. Wright. 2. 13, in part; Ives' Rep. 6. Torrey, Marcy's Rep. 280.

V. polyantha. Schlecht. in Bot. Zeit. 1853, 619. Walp. Ann. 4. 195.

V. grandiflora. Hook. Bot. Mag. **t. 3464.** Don in Sweet's Brit. Fl. Gard. 2 ser. **t. 404.** Torr. & Gray, Fl. 1. 101, excl. var., & 668. Walp. Rep. 1. 141; Ann. 2. 37. Dietr. 3. 638. Gray, Pl. Lindh. 146 & 148; Hall's Pl. Tex. 3.

V. brevistyla. Torr. & Gray, Fl. 1. 102. Walp. Rep. 1. 141. Dietr. 3. 639.

V. lasiocarpa. Hook. Bot. Mag., under t. 3464. Gray, Pl. Lindh. 150; Pl. Wright. 2. 13. Walp. Ann. 4. 196.

V. Lindheimeri. Gray, Pl. Lindh. 145 & 149. Walp. Ann. 2. 39.

V. Ludoviciana. DC. Syst. 2. 297; Prodr. 1. 159. Spreng. Syst. 2. 871. Torrey, Ann. Lyc. N. Y. 2. 166; Bot. Wilkes, 232. Hook. Fl. Bor.-Am. 1. 48; Lond. Jour. Bot. 6. 70. Don, Mill. 1. 176. Torr. & Gray, Fl. 1. 101; Pac. R. Rep. 2. 160. Dietr. 3. 638. Nees, Pl. Wied, 4. Gray, Pl. Lindh. 149; Proc. Acad. Philad. 1863, 58. Scheele, Röm. Texas, 437. Pl. Bourgeau, 263. Porter, Hayd. Rep. 1870, 473; 1871, 478; Fl. Col. 7.

Myagrum argenteum. Pursh, 434. Poir. Suppl. 5. 592. Bradbury, Cat. 337.

Alyssum Ludovicianum. Nutt. Genera, 2. 63.

V. globosa. Desv. Jour. Bot. 3. 181 & 184. Poir. Suppl. 5. 473. Don, Mill. 1. 176. Dietr. 3. 638.

V. arctica. Pl. Bourgeau, 254. Coulter, Hayd. Rep. 1872, 760.

V. montana. Gray, Proc. Acad. Philad. 1863, 58. Watson, King's Rep. 5. 20. Porter, Hayd. Rep. 1871, 478; Fl. Col. 7.

V. Nuttallii. Torr. & Gray, Fl. 1. 101. Walp. Rep. 1. 142; Ann. 2. 38. Dietr. 3. 639. Gray, Pl. Lindh. 148.

V. pallida. Torr. & Gray, Fl. 1. 668. Gray, Pl. Lindh. 149. Walp. Ann. 2. 39.

V. grandiflora, var. *pallida*. Torr. & Gray, Fl. 1. 101.

V. purpurea. Gray, Pl. Wright. 2. 14; Pl. Thurb. 299. Walp. Ann. 4. 196. Torrey, Mex. Bound. 33.

Var. **albiflora.** Gray, Ives's Rep. 6.

V. recurvata. Engelm.; Gray, Pl. Lindh. 147 & 148; Pl. Wright. 2. 13; Hall's Pl. Tex. 3. Walp. Ann. 2. 38. Torrey, Mex. Bound. 33.

V. angustifolia. Scheele, Linn. 21. 584; Röm. Texas, 436.

V. repanda. Nutt.; Torr. & Gray, Fl. 1. 101. Walp. Rep. 1. 141; Ann. 2. 38. Dietr. 3. 639. Gray, Pl. Lindh. 148.

V. Shortii. Torrey, in Short's Pl. Kentucky, 3d Suppl. 336. Torr. & Gray, Fl. 1. 102. Walp. Rep. 1. 141. Dietr. 3. 639. Gray, Pl. Lindh. 148; Manual, 73.

WAREA amplexifolia. Nutt. in Jour. Acad. Philad. 7. 83, **t. 10.** Torr. & Gray, Fl. 1. 98. Dietr. 3. 717. Chapman, 28. Wood, Cl.-Book, 234; Bot. & Fl. 39.

Stanleya amplexifolia. Nutt. in Am. Jour. Sci. 1. 5. 297. DC. Prodr. 1. 200. Spreng. Syst. 2. 909. Don, Mill. 1. 214. Dietr. 3. 717.

W. cuneifolia. Nutt. in Jour. Acad. Philad. 7. 84. Torr. & Gray, Fl. 1. 98. Gray, Genera, 1. 156, **t. 66.** Chapman, 28. Wood, Cl.-Book, 234; Bot. & Fl. 39.

Cleome cuneifolia. Muhl. Cat. 64. Nutt. Genera, 2. 73. Elliott, 2. 150. DC. Prodr. 1. 242. Schult. Syst. 7. 45. Don, Mill. 1. 274. Dietr. 2. 1068.

Stanleya gracilis. DC. Syst. 2. 512; Prodr. 1. 200. Spreng. Syst. 2. 909. Don, Mill. 1. 214.

CAPPARIDACEÆ.

ATAMISQUEA emarginata. Miers, Trav. Chil. 2. 529; Trans. Linn. Soc. 21. 1, **t. 1.** Walp. Ann. 4. 224. Baill. Hist. Pl. 3. 154. Credited to California by Benth. & Hook. (Gen. Pl. 1. 969); in Coulter's collection, probably Chilian.

CAPPARIS cynophallophora. Linn. Spec. 504. See Griseb. Fl. W. Ind. 18. — Chapman, 32.

C. Jamaicensis. Jacq. Stirp. Am. **t. 101.** See Griseb. Fl. W. Ind. 18. — Chapman, 32.

Colicodendron anceps. Shuttl. in Herb.

CLEOME integrifolia. Torr. & Gray, Fl. 1. 122. Walp. Rep. 1. 194. Torrey, Nicol. Rep. 145; Frem. Rep. 87; Sitgr. Rep. 156; Emory's Rep. 137 & 406; Pac. R. Rep. 4. 67. Hook. Lond. Jour. Bot. 6. 72. Gray, Genera, 1. 176, **t. 76**; Pl. Fendl. 11; Pac. R. Rep. 12. 41; Am. Jour. Sci. 2. 33. 404; Proc. Acad. Philad. 1863, 58. Porter, Hayd. Rep. 1870, 473; 1871, 479; Fl. Col. 10. Watson, King's Rep. 5. 32. Coulter, Hayd. Rep. 1872, 761.

C. serrulata. Pursh, 441. Poir. Suppl. 5. 736. Nutt. Genera, 2. 73. James, Cat. 185. Torr. & Gray, Fl. 1. 121. Walp. Rep. 1. 194.

Cleome triphylla. James, Long's Exped. 2. 339.

Peritoma serrulatum. DC. Prodr. 1. 237. Torrey, Ann. Lyc. N. Y. 2. 167. Schult. Syst. 7. 72. Don, Mill. 1. 271. Dietr. 2. 1068. Nees, Pl. Wied, 4.

P. integrifolia. Nutt. in Jour. Acad. Philad. 7. 14.

C. lutea. Hook. Fl. Bor.-Am. 1. 70, **t. 25.** Hook. & Arn. Bot. Beechey, 325. Torr. & Gray, Fl. 1. 122; Pac. R. Rep. 2. 126. Lindl. Bot. Reg. 27, **t. 67.** Walp. Rep. 1. 194. Torrey, Stansb. Rep. 384; Bot. Wilkes, 236. Durand, Fl. Utah, 159. Cooper, Pac. R. Rep. 12. 51. Gray, Proc. Am. Acad. 8. 377.

Peritome aurea. Nutt. in Jour. Acad. Philad. 7. 15.

C. aurea. Nutt.; Torr. & Gray, Fl. 1. 122. Walp. Rep. 1. 194. Hook. Lond. Jour. Bot. 6. 72. Watson, King's Rep. 5. 32. Porter, Hayd. Rep. 1871, 479; Coulter, same, 1872, 761.

C. platycarpa. Torrey, Bot. Wilkes, 235, **t. 2.**

C. PUNGENS, Willd. Chapman, 32. Wood, Bot. & Fl. 44. Young, Fl. Tex. 162.

C. Sonoræ. Gray, Pl. Wright. 2. 16; Pl. Thurb. 300. Walp. Ann. 4. 223. Torrey, Mex. Bound. 35.

C. sparsifolia. Watson, King's Rep. 5. 32, **t. 5.**

C. ——— ? Watson, l. c. 5. 32.

CLEOMELLA angustifolia. Torrey, in Gray, Pl. Wright. 1. 12 (Kew Jour. Bot. 2. 255); Sitgr. Rep. 175; Mex. Bound. 35. Walp. Ann. 2. 57. Gray, Am. Jour. Sci. 2. 33. 404, & Proc. Acad. Philad. 1863, 58, as *C. tenuifolia.* Watson, King's Rep. 5. 33. Porter, Fl. Col. 11.

C. Mexicana. Torrey, Ann. Lyc. N. Y. 2. 167, not DC. Hook. Icon. **t. 28.** Torr. & Gray, Fl. 1. 121. Engelm. & Gray, Pl. Lindh. 3. Gray, Genera, 1. 174, **t. 75.**

C. longipes. Torrey, in Gray, Pl. Wright. 1. 11 (Kew Jour. Bot. 2. 255); Mex. Bound. 35. Gray, Pl. Wright. 2. 16; Pl. Thurb. 300; Proc. Am. Acad. 6. 521. Walp. Ann. 2. 57. Anderson, Cat. 118. Watson, King's Rep. 5. 33.

C. obtusifolia. Torrey, Frem. Rep. 311 (Bot. Zeit. 5. 40); Gray, Pl. Wright. 1. 11 (Kew Jour. Bot. 2. 254). Walp. Ann. 1. 59 & 2. 57. Gray, Proc. Am. Acad. 7. 329.

C. parviflora. Gray, Proc. Am. Acad. 6. 520. Anderson, Cat. 118. Watson, King's Rep. 5. 33.

C. plocasperma. Watson, King's Rep. 5. 33.

CRISTATELLA erosa. Nutt. in Jour. Acad. Philad. 7. 86, **t. 11.** Torr. & Gray, Fl. 1. 123. Engelm. & Gray, Pl. Lindh. 3. Gray, Hall's Pl. Tex. 3.

Cyrbasium erosum. Endl. Gen. Pl. 892. Walp. Rep. 1. 196.

C. Jamesii. Torr. & Gray, Fl. 1. 124. Gray, Genera, 1. 178, **t. 77**; Pl. Fendl. 10. Torrey, Pac. R. Rep. 4. 67; Mex. Bound. 35. Schnizl. Icon. **t. 182, f. 4.**

Cleome, n. sp. Torrey, Ann. Lyc. N. Y. 2. 168.

Cyrbasium Jamesii. Endl. Gen. Pl. 892. Walp. Rep. 1. 196.

GYNANDROPSIS PENTAPHYLLA DC. Beck, Bot. 34. Hook. Jour. Bot. 1. 192. Torr. & Gray, Fl. 1. 121. Gray, Genera, 1. 180, **t. 78.** Chapman, 32.

Cleome pentaphylla, Linn. Barton, Bot. Appx. 31, **t. 26.** Pursh, 441. Nutt. Genera, 2. 73. Elliott, 2. 150.

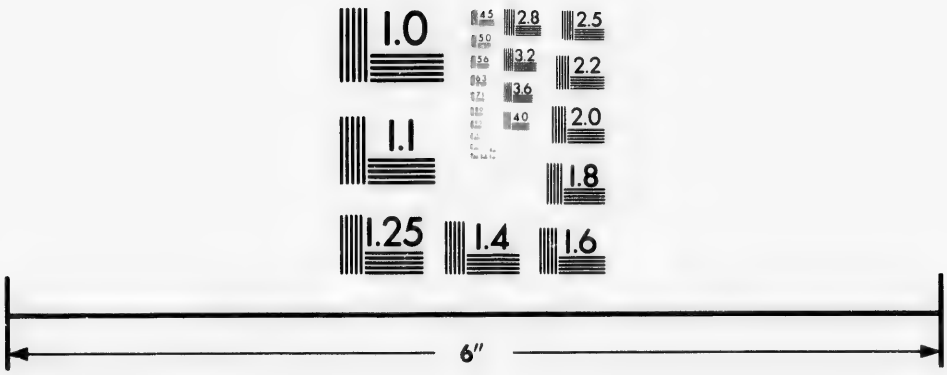
Cleome heptaphylla. Audubon, Birds, **t. 379,** not Linn.

ISOMERIS arborea. Nutt.; Torr. & Gray, Fl. 1. 124. Grah. in Bot. Mag. **t. 3842.** Benth. Bot. Sulph. 6. Torrey, Pac. R. Rep. 7. 8; Mex. Bound. 35, **t. 4.** Gray, Ives's Rep. 7; Proc. Bost. Soc. Nat. Hist. 7. 146.

OXYSTYLIS lutea. Torrey, Frem. Rep. 313 (Bot. Zeit. 5. 41). Gray, Pl. Wright. 1. 11. Walp. Ann. 1. 59.

POLANISIA graveolens. Raf. in Am. Jour. Sci. 1. 1. 378; Jour. Phys. 1819, 98; Med. Bot. 2. 61, **f. 74.** DC. Prodr. 1. 242. Torrey, Ann. Lyc. N. Y. 2. 167; Fl. N. Y. 1. 67; Nicol. Rep. 145; Emory's Rep. 137 & 406; Marcy's Rep. 280; Bot. Wilkes, 236. Hook. Fl. Bor.-Am. 1. 71. Don, Mill. 1. 275. Beck, Bot. 34. Deless. Icon. Sel. 3. 4, **t. 6.** Darling. Fl. Cestr. 600. Spach, Hist. Veg. 6. 304. Torr. & Gray,

IMAGE EVALUATION
TEST TARGET (MT-3)



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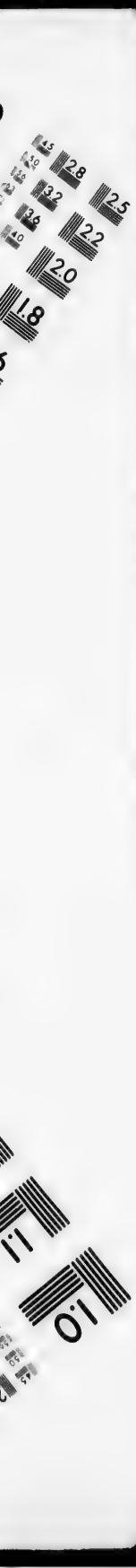
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Fl. 1. 23 & 669. Gray, Struct. Bot. 391, **f. 707–710**; Manual, 76. Parry, Pl. Minn. 609. Brew. & Wats. Bot. Calif. 1. 51.

Cleome dodecandra. Michx. Fl. 2. 32, not Linn. Pursh, 441. Nutt. Genera, 2. 73. Barton, Fl. N. Am. 1. 83, **t. 22.** Bigel. Fl. Bost. 2 ed. 254.

C. viscosa. Spreng. Syst. 2. 125, in part.

C. graveolens. Schult. Syst. 7. 45.

P. tenuifolia. Torr. & Gray, Fl. 1. 123. Eat. & Wr. 365. Walp. Rep. 1. 196. Chapman, 31. Wood, Bot. & Fl. 44.

P. trachysperma. Torr. & Gray, Fl. 1. 669. Walp. l. c. Engelm. in Wisliz. Rep. 9. Gray, Genera, 1. 182, **t. 79**; Pl. Lindh. 150; Pl. Fendl. 10; Pl. Wright. 1. 11. Porter, Hayd. Rep. 1870, 473. Young, Fl. Texas, 163. Brew. & Wats. l. c.

P. uniglandulosa. Torrey, Pac. R. Rep. 4. 67; Mex. Bound. 35. Watson, King's Rep. 5. 34. Porter, Fl. Col. 11.

P. uniglandulosa. DC. Prodr. 1. 242. Gray, Pl. Wright. 1. 10.

Cleome uniglandulosa. Cav. Icon. 4, **t. 306.**

WISLIZENIA Palmeri. Gray, Proc. Am. Acad. 8. 622. Brew. & Wats. l. c. 52.

W. refracta. Engelm. in Wisliz. Rep. 14. Gray, Pl. Wright. 1. 11, **t. 2**, & 2. 16. Walp. Ann. 3. 823. Torrey, Pac. R. Rep. 7. 8; Mex. Bound. 35. Baill. Hist. Pl. 3. 149. Brew. & Wats. l. c.

Cleomella Coulteri. Harv.; Gray, Pl. Wright. 1. 12 & 129.

RESEDACEÆ.

OLIGOMERIS subulata. Boiss. Fl. Or. 1. 435. Muell. in DC. Prodr. 16². 587, with syn. Watson, Proc. Am. Acad. 11. 109 & 113. Brew. & Wats. Bot. Calif. 1. 53.

Reseda subulata. Delile, Fl. Ægypt. 15.

O. glaucescens. Camb. in Jacquem. Voy. 4. 24, **t. 25.** Torr. & Gray, Fl. 1. 669. Gray, Pl. Wright. 2. 16; Pl. Thurb. 305; Ives' Rep. 7. Torrey, Pac. R. Rep. 5. 359; Mex. Bound. 35.

Resedella subulata. Webb & Berthol. Phyt. Canar. 1. 107, **t. 11.**

Ellimia ruderalis. Nutt.; Torr. & Gray, Fl. 1. 125. Eat. & Wr. 231.

O. dispersa, var. *Webbiana.* J. Muell. Monogr. Resed. 215, **t. 10, f. 128.**

CISTACEÆ.

HELIANTHEMUM arenicola. Chapman, 35. Wood, Bot. & Fl. 48.

H. Canadense, var. *obtusum.* Wood, Cl.-Book. 246.

H. Canadense. Michx. Fl. 1. 308. Pursh, 363. James, Long's Exped. 2. 336. Dunal, DC. Prodr. 1. 269. Elliott, 2. 4. Spreng. Syst. 2. 588. Sweet, Cistin. **t. 21.** Hook. Fl. Bor.-Am. 1. 72. Don, Mill. 1. 303. Beck, Bot. 35. Darling. Fl. Cestr. 313. Torr. & Gray, Fl. 1. 151. Dietr. 3. 249. Torrey, Fl. N. Y. 1. 77. Emerson, Mass. Trees, 517. Gray, Genera, 1. 204, **t. 87**; Struct. Bot. 393, **f. 713–719**; Manual, 80; Hall's Pl. Tex. 3. Parry, Pl. Minn. 609. Chapman, 36.

Lechea major. Linn. Amœn. 3. 11, excl. fig. Lam. Dict. 3. 467. Willd. Spec. 1. 495. Smith, Rees Cyc. n. 2.

Cistus Canadensis. Hill, Veg. Syst. 14, **t. 36, f. 3.** Walt. Fl. Car. 152. Lam. Dict. 2. 23. Willd. Spec. 2. 1199. Ait. f. Hort. Kew. 3, 310. James, Long's Exped. 1. 54. Bigel. Fl. Bost. 29.

H. ramuliflorum. Michx. Fl. 1. 307. Persoon, 2. 77. Pursh, 363. Elliott, 2. 4. Spreng. Syst. 2. 588. Don, Mill. 1. 303. Beck, Bot. 35.

Cistus ramuliflorum. Poir. Suppl. 2. 274.

H. rosmarinifolium. Pursh, 364. Dunal, DC. Prodr. 1. 269. Spreng. Syst. 2. 588. Don, Mill. 1. 303.

H. corymbosum. Pursh, 363.

Heteromeris Canadensis. Spach, Ann. Sci. Nat. 2. 6. 370; Hist. Veg. 6. 99.

Heteromeris Michauxii. Spach, Comp. Bot. Mag. 2. 291.

H. capitatum. Nutt.; Engelm. & Gray, Pl. Lindh. 4. Gray, Hall's Pl. Tex. 3.

Heteromeris polifolia. Spach, Comp. Bot. Mag. 2. 291; Ann. Sci. Nat. 2. 6. 371; Hist. Veg. 6. 101.

Helianthemum polifolium. Torr. & Gray, Fl. 1. 151. Walp. Rep. 1. 209. Young, Fl. Texas, 165.

H. Carolinianum. Michx. Fl. 1. 307. Persoon, 2. 77. Pursh, 364. Dunal, DC. Prodr. 1. 269. Elliott, 2. 5. Spreng. Syst. 2. 588. Sweet, Cistin. **t. 99.** Don, Mill. 1. 303. Hook. Jour. Bot. 1. 192. Torr. & Gray, Fl. 1. 152. Dietr. 3. 249. Chapman, 35. Wood, Cl.-Book, 246; Bot. & Fl. 48. Gray, Hall's Pl. Tex. 3.

Cistus Carolinianus. Walt. Fl. Car. 152. Vent. Hort. Cels, **t. 74.** Poir. Suppl. 2. 274.

Crocanthemum Carolinianum. Spach, Ann. Sci. Nat. 2. 6. 370; Hist. Veg. 6. 97.

H. corymbosum. Michx. 1. 307. Persoon, 2. 76. Dunal, DC. Prodr. 1. 269. Elliott, 2. 5. Spreng. Syst. 2. 588. Don, Mill. 1. 303. Beck, Bot. 36. Torr. & Gray, Fl. 1. 151. Dietr. 3. 249. Loud. Arbor. 1. 333. Chapman, 35. Gray, Manual, 81.

Cistus corymbosus. Poir. Suppl. 2. 272.

Heteromeris cymosa. Spach, Comp. Bot. Mag. 2. 291; Ann. Sci. Nat. 2. 6. 371; Hist. Veg. 6. 103.

H. scoparium. Nutt.; Torr. & Gray, Fl. 1. 152. Walp. Rep. 1. 209. Dietr. 3. 249. Benth. Pl. Hartw. 299. Lindl. in Jour. Hort. Soc. 5. 79 (Paxt. Fl. Gard. 1. 14). Torrey, Mex. Bound. 36; Bot. Wilkes, 239. Gray, Ives's Rep. 7; Proc. Am. Acad. 6. 521. Boland. Cat. 5.

H. ——? Hook. & Arn. Bot. Beechey, 135.

Linum trisepalum. Kellogg, Proc. Calif. Acad. 3. 42, **f. 10.**

HUDSONIA ericoides. Linn. Mant. 74. "Berg. Act. Holm. 18, **t. 2.**" "Svensk. Acad. 1778, **t. 1.**" Lam. Dict. 3. 148; Ill. 2. 520, **t. 401.** Willd. Hort. Berol. **t. 15.** Kön. & Sims, Ann. Bot. 1. 566. Gaert. Fruct. **t. 210.** Persoon, 2. 6. Ait. f. Hort. Kew. 3. 147. Pursh, 364. Smith, Rees Cyc. n. 1. Lodd. Cab. **t. 192.** Nutt. Genera, 2. 4. Dunal, DC. Prodr. 1. 285. Spreng. Syst. 2. 452. Sweet, Cistin. **t. 36.** Don, Mill. 1. 315, **f. 61.** Beck, Bot. 37. Spach, Ann. Sci. Nat. 2. 6. 373; Hist. Veg. 6. 114. Torr. & Gray, Fl. 1. 155. Dietr. 3. 25. Torrey, Fl. N. Y. 1. 80. Loud. Arbor. 1. 354, **f. 76.** Emerson, Mass. Trees, 519. Gray, Manual, 81.

H. Nuttallii. Don, Mill. 1. 315. Dietr. 3. 25. Loud. Arbor. 1. 354.

H. montana. Nutt. Genera, 2. 5. Dunal, DC. Prodr. 1. 285. Spreng. Syst. 2. 452. Don, Mill. 1. 315. Spach, Ann. Sci. Nat. 2. 6. 373. Torr. & Gray, Fl. 1. 155. Dietr. 3. 25. Chapman, 36. Wood, Cl.-Book, 246; Fl. & Bot. 48.

H. tomentosa. Nutt. Genera, 2. 5. Spreng. Neue Entdeck. 2. 131. Dunal, DC. Prodr. 1. 285. Sweet, Cistin. **t. 57.** Spreng. Syst. 2. 452. Hook. Fl. Bor.-Am. 1. 73. Don, Mill. 1. 316. Beck, Bot. 37. Bigel. Fl. Bost. 2 ed. 213. Spach, Ann. Sci. Nat. 2. 6. 373; Hist. Veg. 6. 114. Torr. & Gray, Fl. 1. 155. Dietr. 3. 25.

Torrey, Fl. N. Y. 1. 80, **t. 9**; Nicol. Rep. 146. Loud. Arbor. 1. 354. Emerson, Mass. Trees, 519. Gray, Genera, 1. 208, **t. 90**; Manual, 81. Richards. Arct. Exped. 422. Matthew, Canad. Naturalist, 12. 159.

H. ericoides. Richards. Frankl. Journ. 11.

LECHEA Drummondii. Torr. & Gray, Fl. 1. 154. Walp. Rep. 1. 213. Engelm. & Gray, Pl. Lindh. 4. Gray, Genera, 1. 206, **t. 89**; Hall's Pl. Tex. 3. Baill. Hist. Pl. 4. 327. Young, Fl. Texas, 165.

Lechidium Drummondii. Spach, Comp. Bot. Mag. 2. 287; Ann. Sci. Nat. 2. 6. 372; Hist. Veg. 6. 112.

Linum San-Sabeanum. Buckley, Proc. Acad. Philad. 1861, 450, fide Gray, same, 1862, 162.

L. major. Michx. Fl. 1. 76, not Linn. Persoon, 1. 112. Ait. f. Hort. Kew. 1. 185. Poir. Dict. 3. 340. Pursh, 90. Muhl. Cat. 15. Bigel. Fl. Bost. 47. Röm. & Schult. Syst. 2. 860. Torrey, Fl. U. S. 1. 160; Fl. N. Y. 1. 78. Beck, Am. Jour. Sci. 1. 10. 262. Torr. & Gray, Fl. 1. 153. Emerson, Mass. Trees, 518. Chapman, 36. Lesqx. Fl. Ark. 350. Gray, Manual, 81.

L. minor. Linn. Amœn. 3. 10. Lam. Dict. 3. 468. Willd. Spec. 1. 495? Persoon, 1. 112? Ait. f. Hort. Kew. 1. 185? Smith, Rees Cyc. n. 1.

L. villosa. Elliott, 1. 184. Dunal, DC. Prodr. 1. 285. Spreng. Syst. 1. 363. Hook. Fl. Bor.-Am. 1. 72; Jour. Bot. 1. 192. Don, Mill. 1. 316. Beck, Bot. 36. Darling. Fl. Cestr. 96. Spach, Ann. Sci. Nat. 2. 6. 372, **t. 17, f. 10, 11**; Hist. Veg. 6. 109. Dietr. 1. 415.

L. mucronata. Raf. Jour. Bot. 4. 269. Röm. & Schult. Syst. 2, Mant. 467.

? *L. Drummondii.* Spach, Comp. Bot. Mag. 2. 284; Ann. Sci. Nat. 2. 6. 372; Hist. Veg. 6. 110.

L. minor. Walt. Fl. Car. 83? Lam. Ill. 1. 221, **t. 52, f. 1?** Pursh, 91. Bigel. Fl. Bost. 48. Röm. & Schult. Syst. 2. 859 & Mant. 467. Dunal, DC. Prodr. 1. 285. Torrey, Fl. U. S. 160; Fl. N. Y. 1. 79. Hook. Fl. Bor.-Am. 1. 73. Don, Mill. 1. 316. Beck, Bot. 36. Spach, Ann. Sci. Nat. 2. 6. 372. Darling. Fl. Cestr. 97. Torr. & Gray, Fl. 1. 153, excl. vars.; Pac. R. Rep. 2. 160. Dietr. 1. 416. Emerson, Mass. Trees, 518. Gray, Pl. Fendl. 11; Manual, 82, in part. Chapman, 36.

L. Novæ-Cesareæ. C. F. Austin; Gray, Manual, 81. Wood, Bot. & Fl. 47.

? *L. thymifolia.* Michx. Fl. 1. 77. Persoon, 1. 112. Poir. Suppl. 3. 340.

? *L. minor.* Hook. Jour. Bot. 1. 192.

L. racemulosa. Lam. Ill. 2. 423, **t. 281, f. 3.** Michx. Fl. 1. 77. Persoon, 1. 112. Poir. Suppl. 3. 340. Pursh, 91. Smith, Rees Cyc. n. 3. Röm. & Schult. Syst. 2. 860. Elliott, 1. 184. Dunal, DC. Prodr. 1. 285. Torrey, Fl. U. S. 161. Spreng. Syst. 1. 363. Don, Mill. 1. 316. Beck, Bot. 36. Usually made a form of *L. minor.*

L. thesioides. Spach, Comp. Bot. Mag. 2. 285; Ann. Sci. Nat. 2. 6. 372; Hist. Veg. 6. 111.

L. minor, var. β. Torr. & Gray, Fl. 1. 154.

L. tenuifolia. Michx. Fl. 1. 77. Persoon, 1. 112. Poir. Suppl. 3. 341. Pursh, 91. Smith, Rees Cyc. n. 5. Röm. & Schult. Syst. 2. 861 & Mant. 467. Elliott, 1. 185. Dunal, DC. Prodr. 1. 286. Spreng. Syst. 2. 363. Don, Mill. 1. 316. Dietr. 1. 416. Usually made a form of *L. minor.*

L. minor, var. γ. Torr. & Gray, Fl. 1. 154.

L. minor. Gray, Hall's Pl. Tex. 3.

L. thymifolia. Pursh, 91, not Michx. Smith, Rees Cyc. n. 4. Röm. & Schult. Syst. 2. 859. Elliott, 1. 185. Torrey, Fl. U. S. 161; Fl. N. Y. 1. 79. Spreng. Syst. 2. 363. Don, Mill. 1. 316. Beck, Bot. 36. Torr. & Gray, Fl. 1. 153. Dietr. 1. 416.

Emerson, Mass. Trees, 518. Gray, Genera, 1. 206, **t. 88**; Manual, 81. Matthew, Pl. Acadia, 21.

L. Torreyi. W. H. Leggett, ined.

L. racemulosa. Hook. Jour. Bot. 1. 193.

VIOLACEÆ.

IONIDIUM concolor. Benth. & Hook. Genera, 1. 118.

Viola concolor. Forst. in Linn. Trans. 6. 308, **t. 28.** Poir. Dict. 8. 643. Ait. f. Hort. Kew. 2. 48. Pursh, 175. Nutt. Genera, 1. 151. Barton, Comp. Fl. Phil. 1. 125. Röm. & Schult. Syst. 5. 377. Elliott, 1. 303. Schwein. in Am. Jour. Sci. 1. 5. 79. Torrey, Fl. U. S. 258.

Solea stricta. Spreng. Pl. Min. Cog. 1. 22.

Ionidium Sprengelianum. Röm. & Schult. Syst. 5. 401.

Solea concolor. Ging. in DC. Prodr. 1. 306. Torrey, Ann. Lyc. N. Y. 2. 168; Fl. N. Y. 1. 76. Don, Mill. 1. 335. Beck, Bot. 42. Torr. & Gray, Fl. 1. 144. Gray, Genera, 1. 188, **t. 81**; Manual, 77. Chapman, 34. Lesqx. Fl. Ark. 349.

Noisettia acuminata. DC. Prodr. 1. 290. Don, Mill. 1. 319. Torr. & Gray, Fl. 1. 136 & 671.

Hybanthus concolor. Baill. Hist. Pl. 4. 352.

I. fruticulosum. Benth. Bot. Sulph. 7, **t. 2.** Walp. Rep. 5. 60. Gray, Proc. Am. Acad. 5. 154 (var. **dentatum**). — (Lower California.)

I. lineare. Torrey, Ann. Lyc. N. Y. 2. 168; Mex. Bound. 36. Torr. & Gray, Fl. 1. 145. Walp. Rep. 1. 221; Ann. 4. 234. Gray, Genera, 1. 190, **t. 82**; Pl. Lindh. 151; Pl. Wright. 1. 12 & 2. 16; Pl. Thurb. 300; Proc. Acad. Philad. 1863, 58; Hall's Pl. Tex. 3. Porter, Fl. Col. 11.

Var. Gray, Pl. Lindh. 152; Pl. Wright. 1. 12.

I. stipulaceum. Nutt.; Torr. & Gray, Fl. 1. 144. Walp. Rep. 1. 221.

I. riparium, var. Gray, Pl. Wright. 2. 16.

VIOLA Beckwithii. Torr. & Gray, Pac. R. Rep. 2. 119, **t. 1** (Regensb. Flora, 1858, 622). Durand, Pl. Pratten, 82. Walp. Ann. 4. 232 & 7. 210. Anderson, Cat. 118. Watson, King's Rep. 5. 35.

V. montana. Kellogg, Proc. Calif. Acad. 1. 56.

V. biflora. Linn. Spec. 936. See syn. in Hook. Bot. Mag. under **t. 2089**; Ledeb. Fl. Ross. 1. 254; Regel, Fl. Ost-Sib. 1. 253, including *V. glabella.* — DC. Prodr. 1. 300. Don, Mill. 1. 329. Gray, Am. Jour. Sci. 2. 33. 404; Proc. Acad. Philad. 1863, 58. Hook. f. Arct. Pl. 286. Porter, Fl. Col. 11.

V. blanda. Willd. Hort. Berol. **t. 24** (Schrad. Jour. Bot. 1807, 112). Ait. f. Hort. Kew. 2. 45. Pursh, 172. Poir. Suppl. 4. 483. Nutt. Genera, 1. 149. Röm. & Schult. Syst. 5. 358. Elliott, 1. 298. Schwein. Mon. Viol. in Am. Jour. Sci. 1. 5. 65. Reichenb. Icon. Bot. 1. 40, **t. 51, f. 104.** Torrey, Fl. U. S. 254; Fl. N. Y. 1. 72. Ging. in DC. Prodr. 1. 295. Bigel. Fl. Bost. 99. Spreng. Syst. 1. 798. Le Conte, Ann. Lyc. N. Y. 2. 144. Hook. Fl. Bor.-Am. 1. 76; Jour. Bot. 1. 193. Don, Mill. 1. 323. Beck, Bot. 40. Darling. Fl. Cestr. 145. Torr. & Gray, Fl. 1. 138. Hook. & Arn. Bot. Beechey, 122. Dietr. 1. 841. Ledeb. Fl. Ross. 1. 247. Chapman, 33. Hook. f. Arct. Pl. 320, referring it to *V. palustris.* Rothr. Alask. 444. Regel, Fl. Ost-Sib. 1. 216 & 234, **t. 6, f. 20–23.** Gray, Manual, 77; Proc. Am. Acad. 8. 377. Willis, Pl. N. Jer. 7.

V. clandestina. Pursh. 173. Poir. Suppl. 4. 484. Röm. & Schult. Syst. 5. 358.

Schwein. l. c. 65. Torrey, Fl. U. S. 254. Le Conte, l. c. 146. Hook. Fl. Bor.-Am. 1. 77. Don, Mill. 1. 324. Beck, Bot. 40.

V. obliqua. Pursh, 172, not Ait.

V. amœna. Le Conte, l. c. 144.

V. Leconteana. Don, Mill. 1. 324. Walp. Rep. 1. 217.

V. Canadensis. Linn. Spec. 936. Hill, Veg. Syst. 22, **t. 59, f. 4.** Ait. Hort. Kew. 3. 290. Willd. Spec. 1. 1166. Michx. Fl. 2. 150. Persoon, 1. 254. Poir. Dict. 8. 635. Pursh, 174. Nutt. Genera, 1. 150. Röm. & Schult. Syst. 5. 375. Elliott, 1. 301. Schwein. l. c. 68. Richards. Frankl. Journ. 6. Reichenb. Icon. Bot. 1. 45, **t. 54, f. 113.** Ging. in DC. Prodr. 1. 301. Bigel. Fl. Bost. 103. Torrey, Fl. U. S. 255; Fl. N. Y. 1. 75; Nicol. Rep. 145; Pac. R. Rep. 4. 68. Spreng. Syst. 1. 801. Le Conte, l. c. 148. Sweet, Br. Fl. Gard. 2 ser. **t. 62.** Hook. Fl. Bor.-Am. 1. 80. Don, Mill. 1. 329. Bong. Sitch. 125. Beck, Bot. 40. Torr. & Gray, Fl. 1. 143. Dietr. 1. 843. Nees, Pl. Wied, 4. Gray, Pl. Fendl. 11; Pac. R. Rep, 12. 41; Manual, 79. Parry, Pl. Minn. 609. Chapman, 34. Watson, King's Rep. 5. 35. Coulter, Hayd. Rep. 1872, 761. Porter, Fl. Col. 11. Willis, Pl. N. Jer. 9.

V. albiflora. Link, Enum. Hort. Berol. 1. 141.

Lophion Canadense. Spach, Hist. Veg. 5. 517.

V. canina. Linn. Spec. 935. See syn. in Ledeb. Fl. Ross. 1. 252; Babington, Henf. Bot. Gaz. 2. 141; Koch, Fl. Germ. 3 ed. 73; Hook. f. Arct. Pl. 286 & 320; Regel, Fl. Ost-Sib. 1. 244. — Walt. Fl. Car. 219. Schrank, Pfl. Lab. 12. Richards. Frankl. Journ. 6. Ging. in DC. Prodr. 1. 298. Cham. & Schlecht. in Linn. 2. 146. Meyer, Pl. Lab. 89. Hook. Fl. Bor.-Am. 1. 79. Schlecht. in Linn. 10. 102. Lange, Pl. Grönl. 131. Boland. Cat. 5. Watson, King's Rep. 5. 34. Porter, Hayd. Rep. 1871, 478; Fl. Col. 11. The American plant referable to the following varieties.

Var. **sylvestris.** Regel, Fl. Ost-Sib. 1. 245. Gray, Manual, 79. Coulter, Hayd. Rep. 1872, 761.

V. asarifolia. Schreb.; Muhl. Ind. Fl. Lanc. 178; Cat. 25.

V. debilis. Pursh, 174, not Michx. Nutt. Genera, 1. 150. Schwein. l. c. 71. Richards. Frankl. Journ. 6. Ging. in DC. Prodr. 1. 298. Lodd. Cab. **t. 1378.** Don, Mill. 1. 327.

V. uliginosa. Muhl. Cat. 25, not Schrad. Schwein. l. c. 72.

V. Labradorica. Schrank, Pfl. Lab. 12. Röm. & Schult. Syst. 5. 380. Ging. in DC. Prodr. 1. 306. Meyer, Pl. Lab. 89. Don, Mill. 1. 334.

V. punctata. Schwein. l. c. 48. Ging. in DC. Prodr. 1. 305.

V. conspersa. Reichenb. Icon. Bot. 1. 44, **t. 52, f. 108.** Spreng. Syst. 1. 799. Dietr. 1. 842.

V. Muhlenbergii. Torrey, Fl. U. S. 1. 256; Fl. N. Y. 1. 73. Ging. in DC. Prodr. 1. 297. Le Conte, Ann. Lyc. N. Y. 2. 148. Hook. Fl. Bor.-Am. 1. 78; Lond. Jour. Bot. 6. 73. Don, Mill. 1. 326. Beck, Bot. 40. Darling. Fl. Cestr. 146. Torr. & Gray, Fl. 1. 140. Hook. & Arn. Bot. Beechey, 325. Walp. Rep. 1. 218. Gray, Manual, 1 ed. 46; Am. Jour. Sci. 2. 33. 404. Chapman, 34. Liebm. Fl. Dan. Suppl. **t. 2710.** Willis, Pl. N. Jer. 9.

? *V. radicans.* Ging. in DC. Prodr. 1. 297. Le Conte, l. c. 153. Don, Mill. 1. 326. Torr. & Gray, Fl. 1. 144.

Var. **rupestris.** Regel, Fl. Ost-Sib. 1. 250.

V. Muhlenbergii, vars. β & γ. Hook. Fl. Bor.-Am. 1. 78. Torr. & Gray, Fl. 1. 140. Lange, Pl. Grönl. 131. Chapman, 34.

V. Allionii. Schlecht. in Linn. 10. 103.

Var. **adunca.** Gray, Proc. Am. Acad. 8. 377.

V. adunca. Smith, Rees Cyc. n. 63. Hook. Fl. Bor.-Am. 1. 79. Don, Mill. 1. 327.

Torr. & Gray, Fl. 1. 141. Hook. & Arn. Bot. Beechey, 135. Torrey, Pac. R. Rep. 4. 68; Mex. Bound. 35; Bot. Wilkes, 238. Newberry, Pac. R. Rep. 6. 67. Cooper, same, 12. 56.

V. debilis. Nutt. Jour. Acad. Philad. 7. 15, not Michx.

V. longipes. Nutt.; Torr. & Gray, Fl. 1. 140. Walp. Rep. 1. 218. Benth. Pl. Hartw. 298. Durand, Pl. Pratten. 82. Newberry, Pac. R. Rep. 6. 67. Kellogg, Proc. Calif. Acad. 1. 53.

V. Muhlenbergii, var. *pubescens.* Gray, Am. Jour. Sci. 2. 33. 404; Proc. Acad. Philad. 1863, 58.

V. chrysantha. Hook. Icon. **t. 49,** not Schrad. Torr. & Gray, Fl. 1. 143 & 671. Hook. & Arn. Bot. Beechey, 325. Walp. Rep. 1. 218. Benth. Pl. Hartw. 298. Torrey, Pac. R. Rep. 4. 68. Newberry, same, 6. 67. Kellogg, Proc. Calif. Acad. 2. 229, **f. 72.** Boland. Cat. 6.

V. Douglasii. Steud. Nomenclator, 2. 771.

V. cucullata. Ait. Hort. Kew. 3. 288. Willd. Spec. 1. 1162; Enum. 263. Persoon, 1. 254. Poir. Dict. 8. 627. Pursh, 173. Bot. Mag. **t. 1795.** Röm. & Schult. Syst. 5. 355. Elliott, 1. 298. Schwein. l. c. 60. Ging. in DC. Prodr. 1. 292. Bigel. Fl. Bost. 101. Torrey, Fl. U. S. 251; Fl. N. Y. 1. 70; Nicol. Rep. 145; Emory's Rep. 137 & 406; Pac. R. Rep. 4. 68; Mex. Bound. 36; Bot. Wilkes, 237. Spreng. Syst. 1. 798. Le Conte, l. c. 137. Hook. Fl. Bor.-Am. 1. 75; Jour. Bot. 1. 193. Don, Mill. 1. 321; Sweet, Br. Fl. Gard. 2 ser. **t. 298.** Beck, Bot. 38. Spach, Hist. Veg. 5. 508. Darling. Fl. Cestr. 143. Torr. & Gray, Fl. 1. 137. Dietr. 1. 841. Nees, Pl. Wied, 4. Gray, Pl. Fendl. 11; Pac. R. Rep. 12. 41; Manual, 78. Parry, Pl. Minn. 609. Newberry, Pac. R. Rep. 6. 67. Chapman, 33. Lesqx. Fl. Ark. 350. Anderson, Cat. 118. Watson, King's Rep. 5. 34. Porter, Hayd. Rep. 1871, 478; Fl. Col. 11. Willis, Pl. N. Jer. 7.

V. obliqua. Hill, Hort. Kew. 316, **t. 12;** Veg. Syst. 13. 63, **t. 16** & 22, **t. 61.** Ait. Hort. Kew. 3. 288. Willd. Spec. 1. 1161. Persoon, 1. 254. Poir. Dict. 8. 626. Muhl. Cat. 25. Röm. & Schult. Syst. 5. 355. Schwein. l. c. 60. Torrey, Fl. U. S. 251. Don, Mill. 1. 321.

V. papilionacea. Pursh, 173. Poir. Suppl. 4. 484. Röm. & Schult. Syst. 5. 356. Ging. in DC. Prodr. 1. 292. Spreng. Syst. 1. 797. Don, Mill. 1. 321.

V. asarifolia. Pursh, 732, not Muhl. Poir. l. c. Röm. & Schult. Syst. 5. 358. Spreng. l. c. Schwein. l. c. 53. Ging. l. c. Le Conte, l. c. 141. Don, l. c. Dietr. 1. 840.

V. affinis & *congener.* Schwein. l. c. 138 & 140. Don, Mill. 1. 321.

Var. **cordata.** Gray, Manual, 78.

V. cordata. Walt. Fl. Car. 219. Spreng. Syst. 1. 797. Reichenb. Icon. Bot. 1. 40, **t. 45, f. 97.** Don, Mill. 1. 324. Dietr. 1. 841.

V. villosa. Walt. Fl. Car. 219. Nutt. Genera, 1. 148. Elliott, 1. 297. Schwein. l. c. 61. Ging. in DC. Prodr. 1. 295. Torrey, Fl. U. S. 252. Spreng. Syst. 1. 798. Le Conte, l. c. 144. Don, Mill. 1. 324. Beck, Bot. 39. Torr. & Gray, Fl. 1. 138. Dietr. 1. 841. Nees, Pl. Wied, 4. Chapman, 33. Wood, Bot. & Fl. 46.

V. sororia. Willd. Enum. 263; Hort. Berol. **t. 72.** Ait. f. Hort. Kew. 2. 44. Pursh, 173 Poir. Suppl. 4. 483. Röm. & Schult. Syst. 5. 355. Spreng. Syst. 1. 797. Reichenb. Icon. Bot. 1. 39, **t. 43, f. 94.** Le Conte, l. c. 142. Don, Mill. 1. 324. Darling. Fl. Cestr. 144. Dietr. 1. 841.

V. barbata. Muhl. Cat. 25.

V. ciliata. Willd.; Röm. & Schult. Syst. 5. 360.

V. cordifolia. Schwein. l. c. 62. Ging. in DC. Prodr. 1. 295.

Var. **palmata**. Gray, Manual, 78.

V. palmata. Linn. Spec. 933. Hill, Veg. Syst. 22, **t. 58, f. 1**. Walt. Fl. Car. 218. Willd. Spec. 1. 1159; Enum. 263. Bot. Mag. **t. 535**. Michx. Fl. 2. 151. Persoon, 1. 254. Poir. Dict. 8. 625. "Tratt. Archiv. **t. 302**." Pursh, 172. Nutt. Genera, 1. 147. Röm. & Schult. Syst. 5. 350. Elliott, 1. 300. Schwein. l. c. 51. Reichenb. Icon. Bot. 1. 37, **t. 41, f. 86**. James, Long's Exped. 2. 333. Bigel. Fl. Bost. 100. Ging. in DC. Prodr. 1. 291. Torrey, Fl. U. S. 250; Ann. Lyc. N. Y. 2. 168; Fl. N. Y. 1. 69. Spreng. Syst. 1. 796. Le Conte, l. c. 139. Hook. Fl. Bor.-Am. 1. 74; Jour. Bot. 1. 193. Don, Mill. 1. 321. Beck, Bot. 38. Spach, Hist. Veg. 5. 507. Darling. Fl. Cestr. 142. Torr. & Gray, Fl. 1. 137. Dietr. 1. 840. Gray, Manual, 1 ed. 45; Pac. R. Rep. 12. 41. Chapman, 33.

V. ranunculifolia. Juss.; Poir. Dict. 8. 626. Röm. & Schult. Syst. 5. 352.

V. heterophylla. Muhl. Cat. 25. Le Conte, l. c. 139. Don, Mill. 1. 321.

V. triloba. Schwein. l. c. 57. Don, Mill. 1. 321.

V. septemloba. Le Conte, l. c. 141. Don, Mill. 1. 320. Torr. & Gray, Fl. 1. 137. Walp. Rep. 1. 217.

V. edulis. Spach, Hist. Veg. 5. 508.

V. delphinifolia. Nutt.; Torr. & Gray, Fl. 1. 136. Walp. Rep. 1. 217. Torrey, Nicol. Rep. 145. Parry, Pl. Minn. 609. Gray, Manual, 78. Porter, Fl. Col. 11.

? *V. pedatifida*. Don, Mill. 1. 320. Walp. Rep. 1. 217.

V. glabella. Nutt.; Torr. & Gray, Fl. 1. 142. Walp. Rep. 1. 218. Cooper, Pac. R. Rep. 6. 56. Boland. Cat. 5. Gray, Proc. Am. Acad. 8. 377. Torrey, Bot. Wilkes, 237.

V. Canadensis, var. *Sitchensis*. Bong. Sitch. 125. Ledeb. Fl. Ross. 1. 254. Miquel, Ann. Mus. Lugd.-Bat. 2. 154.

V. striata. Hook. in Lond. Jour. Bot. 6. 72, not Ait.

V. biflora, var. *Sitchensis*. Regel, Fl. Ost-Sib. 1. 253. Rothr. Alask. 444.

V. Hallii. Gray, Proc. Am. Acad. 8. 377. Brew. & Wats. l. c. 57.

? *V. chrysantha*, var. *glaberrima*. Torrey, Bot. Wilkes, 238.

V. hastata. Michx. Fl. 2. 149. Persoon, 1. 255. Poir. Dict. 8. 635. Pursh, 175. Nutt. Genera, 1. 150. Röm. & Schult. Syst. 5. 371. Elliott, 1. 302. Schwein. l. c. 77. Ging. in DC. Prodr. 1. 300. Torrey, Fl. U. S. 257. Spreng. Syst. 1. 801. Le Conte, l. c. 150. Don, Mill. 1. 329. Beck, Bot. 41. Torr. & Gray, Fl. 1. 142. Dietr. 1. 843. Chapman, 34. Lesqx. Fl. Ark. 350. Gray, Manual, 79.

V. tripartita. Elliott; Nutt. Genera, 1. 150. Elliott, 1. 302 (Spreng. Neue Entdeck. 2. 193). Ging. in DC. Prodr. 1. 300. Spreng. Syst. 1. 801. Don, Mill. 1. 329. Torr. & Gray, Fl. 1. 142. Dietr. 1. 844. Wood, Cl.-Book, 243; Fl. & Bot. 46.

V. gibbosa. Raf.; Ging. in DC. Prodr. 1. 305. Don, Mill. 1. 334.

V. lanceolata. Linn. Spec. 934, excl. pl. Gmel. Hill, Veg. Syst. 22, **t. 58, f. 4**. Willd. Spec. 1. 1161. Forst. in Trans. Linn. Soc. 6. 310. Michx. Fl. 2. 150. Persoon, 1. 254. Poir. Dict. 8. 630. Pursh, 172. Lodd. Cab. **t. 211**. Nutt. Genera, 1. 150. Röm. & Schult. Syst. 5. 354. Elliott, 1. 296. Schwein. l. c. 64. Reichenb. Icon. Bot. 1. 42, **t. 52, f. 106**. Ging. in DC. Prodr. 1. 293. Bigel. Fl. Bost. 98. Torrey, Fl. U. S. 253; Fl. N. Y. 1. 72. Sweet, Br. Fl. Gard. **t. 174**. Spreng. Syst. 1. 798. Le Conte, l. c. 146. Hook. Fl. Bor.-Am. 1. 76. Don, Mill. 1. 322. Beck, Bot. 39. Torr. & Gray, Fl. 1. 139. Dietr. 1. 842. Chapman, 33. Gray, Manual, 77; Hall's Pl. Tex. 3. Willis, Pl. N. Jer. 7.

V. attenuata. Sweet, Hort. Brit. 37. Don, Mill. 1. 322. Walp. Rep. 1. 217.

V. Langsdorffii. Fisch.; Ging. in DC. Prodr. 1. 296; Linn. 1. 407. Spreng. Syst. 1. 800. Hook. Fl. Bor.-Am. 1. 77. Don, Mill. 1. 325. Torr. & Gray, Fl. 1. 139. Dietr. 1. 843. Eat. & Wr. 477. Ledeb. Fl. Ross. 1. 250. Rothr. Alask. 444. Maxim. Bull. Acad. Petersb. 23. 329 (Mel. Biol. 9. 741).

V. mirabilis, var. *Langsdorffii*. Regel, Fl. Ost-Sib. 1. 240, **t. 6, f. 24–29.**

V. lobata. Benth. Pl. Hartw. 298. Walp. Ann. 2. 66. Durand, Pl. Pratten. 82. Torrey, Pac. R. Rep. 4. 68; Mex. Bound. 35. Boland. Cat. 6. Brew. & Wats. Bot. Calif. 1. 57.

V. Sequoiensis. Kellogg, Proc. Calif. Acad. 2. 185, **f. 55.**

Var. **integrifolia.** Watson, Bot. Calif. 1. 57.

V. Nuttallii. Pursh, 174. Poir. Suppl. 4. 484. Nutt. Genera, 1. 151; Journ. Acad. Philad. 7. 16. Roem. & Schult. Syst. 5. 372. Schwein. l. c. 77. Ging. in DC. Prodr. 1. 300. Spreng. Syst. 1. 801. Le Conte, l. c. 151. Hook. Fl. Bor.-Am. 1. 79, **t. 26**; Lond. Journ. Bot. 6. 73. Don, Mill. 1. 329. Torr. & Gray, Fl. 1. 141. Dietr. 1. 844. Eat. & Wr. 479. Torrey, Nicol. Rep. 146; Bot. Wilkes, 237. Cooper, Pac. R. Rep. 12. 56. Gray, Am. Journ. Sci. 2. 33. 404; Proc. Acad. Philad. 1863, 58; Proc. Am. Acad. 8. 377. Boland. Cat. 5. Watson, King's Rep. 5. 35. Porter, Hayd. Rep. 1871, 478; Fl. Col. 11. Coulter, Hayd. Rep, 1872, 761. Brew. & Wats. l. c. 57.

V. præmorsa. Dougl.; Lindl. Bot. Reg. 15, **t. 1254.** Hook. Fl. Bor.-Am. 1. 80. Don, Mill. 1. 329. Torr. & Gray, Fl. 1. 141. Eat. & Wr. 478. Walp. Rep. 1. 218.

V. linguæfolia. Nutt.; Torr. & Gray, Fl. 1. 141. Eat. & Wr. 477. Walp. l. c.

V. pedunculata. Torrey, Stansb. Rep. 383. Durand, Fl. Utah, 160.

V. ocellata. Torr. & Gray, Fl. 1. 142. Hook. & Arn. Bot. Beechey, 325. Walp. Rep. 1. 218. Eat. & Wr. 479. Benth. Pl. Hartw. 298. Torrey, Pac. R. Rep. 4. 68. Mex. Bound. 35. Newberry, Pac. R. Rep. 6. 67. Gray, Proc. Calif. Acad. 3. 101. Boland. Cat. 5. Brew. & Wats. l. c. 56.

V. ODORATA, Linn. Gray, Manual, 77. Brew. & Wats. l. c. 55.]

V. palustris. Linn. Spec. 934. See syn. in Ledeb. Fl. Ross. 1. 247; Regel, Fl. Ost-Sib. 1. 233; Hook. f. Arct. Pl. 286 & 320; Maxim. Bull. Acad. Petersb. 23. 323 (Mel. Biol. 9. 733), with var. *epipsila.* — Schrank, Pfl. Lab. 12. Ging. in DC. Prodr. 1. 294. Meyer, Pl. Lab. 88. Torr. & Gray, Fl. 1. 139. Bigel. Fl. Bost. 3 ed. 102. Eat. & Wr. 477. Lange, Pl. Groenl. 131. Durand, Fl. Utah, 159. Hook. f. in Journ. Linn. Soc. 5. 83. Gray, Am. Journ. Sci. 2. 33. 404; Manual, 78. Watson, King's Rep. 5. 34. Porter, Fl. Col. 11. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 317. Brew. & Wats. l. c.

V. epipsila, Ledeb. Regel, Fl. Ost-Sib. 1. 216 & 233, with syn. Gray, Am. Journ. Sci. 2. 33. 404.

V. pedata. Linn. Spec. 933. Hill, Veg. Syst. 22, **t. 58, f. 2.** Walt. Fl. Car. 219. Bot. Mag. **t. 89.** Willd. Spec. 1. 1160. Andr. Bot. Rep. 3, **t. 153.** Michx. Fl. 2. 153. Persoon, 1. 254. Poir. Dict. 8. 625. Tratt. Archiv. **t. 365, 366.** Pursh, 171. Bigel. Fl. Bost. 60. Nutt. Genera, 1. 147. Barton, Comp. Fl. Phil. 1. 120. Roem. & Schult. Syst. 5. 351. Elliott, 1. 300. Lodd. Cab. **t. 536.** Schwein, l. c. 50. Sweet, Br. Fl. Gard. **t. 69** & 2 ser. **t. 247.** Ging. in DC. Prodr. 1. 291. Torrey, Fl. U. S. 249; Fl. N. Y. 1. 69. Spreng. Syst. 1. 796. Turpin, Dict. Sci. Nat. 58. 231, **t. 188.** Le Conte, l. c. 147. Hook. Fl. Bor.-Am. 1. 74; Journ. Bot. 1. 193. Don, Mill. 1. 320. Beck, Bot. 38. Darling. Fl. Cestr. 142. Torr. & Gray, Fl. 1. 136. Dietr. 1. 840. Eat. & Wr. 477. Parry, Pl. Minn. 609. Chapman, 33. Lesqx. Fl. Ark. 350. Lemaire, Ill. Hort. 14, **t. 520.** Moore, Fl. Mag. 1867, **t. 350.** Gray, Manual, 78. Willis, Pl. N. Jer. 8.

V. digitata. Pursh, 171. Poir. Suppl. 4. 485. Roem. & Schult. Syst. 5. 351. Don, Mill. 1. 320.

V. pinnata. Richards. Frankl. Journ. 6.

V. flabellifolia. Lodd. Cab. **t. 777.** Don, Mill. 1. 321.

Var. **bicolor.** Pursh; fide Raf. in DC. Prodr. 1. 291. Gray, Manual, 79. Wood, Bot. & Fl. 46.

V. pedata, var. *atropurpurea.* Ging. in DC. Prodr. 1. 291. Fl. Serres, 1. 131, **t. 1361.**

V. pedata, var. Grah. in Edinb. Phil. Journ. Dec. 1833.

V. pedunculata. Torr. & Gray, Fl. 1. 141. Hook. & Arn. Bot. Beechey, 325. Eat. & Wr. 479. Walp. Rep. 1. 218. Benth. Pl. Hartw. 298. Torrey, Pac. R. Rep. 4. 68, in part, & 7. 8; Mex. Bound. 35. Newberry, Pac. R. Rep. 6. 67. Hook. Bot. Mag. **t. 5004.** Gray, Ives' Rep. 7. Lemaire, Ill. Hort. 4, Misc. 88. Boland. Cat. 5. Brew. & Wats. Bot. Calif. 1. 56.

V. primulæfolia. Linn. Spec. 934. Hill, Veg. Syst. 22, **t. 58, f. 5.** Walt. Fl. Car. 219. Willd. Spec. 1. 1162. Persoon, 1. 254. Poir. Dict. 8. 630. Ait. f. Hort. Kew. 2. 45. Nutt. Genera, 1. 149. Röm. & Schult. Syst. 5. 359. Elliott, 1. 297. Schwein. l. c. 64. Reichenb. Icon. Bot. 1. 39, **t. 45, f. 96.** Ging. in DC. Prodr. 1. 293. Torrey, Fl. U. S. 254; Fl. N. Y. 1. 72. Spreng. Syst. 1. 798. Le Conte, l. c. 145. Don, Mill. 1. 322. Beck, Bot. 39. Hook. Jour. Bot. 1. 193. Darling. Fl. Cestr. 145. Torr. & Gray, Fl. 1. 139. Chapman, 33. Gray, Manual, 77. Willis, Pl. N. Jer. 7.

V. acuta. Bigel. Fl. Bost. 100. Torrey, Fl. U. S. 253. Spreng. Syst. 4². 96. Don, Mill. 1. 322. Beck, Bot. 39. Dietr. 1. 842.

V. pubescens. Ait. Hort. Kew. 3. 290. Willd. Spec. 1. 1166. Persoon, 1. 255. Poir. Dict. 8. 637. Pursh, 174. Nutt. Genera, 1. 150. Röm. & Schult. Syst. 5. 376. Schwein. l. c. 74. Reichenb. Icon. Bot. 1. 45 & 92, **t. 53, f. 111.** Ging. in DC. Prodr. 1. 301. Bigel. Fl. Bost. 103. Torrey, Fl. U. S. 257; Ann. Lyc. N. Y. 2. 168; Fl. N. Y. 1. 74. Spreng. Syst. 1. 800. Le Conte, l. c. 150. Sweet, Br. Fl. Gard. **t. 223.** Lodd. Cab. **t. 1249.** Don, Mill. 1. 330. Beck, Bot. 41. Darling. Fl. Cestr. 147. Torr. & Gray, Fl. 1. 142. Dietr. 1. 843. Nees, Pl. Wied, 4. Chapman, 34. Gray, Manual, 79. Willis, Pl. N. Jer. 9. Maxim. l. c. 337 (753).

V. Pennsylvanica. Michx. Fl. 2. 149. Persoon, 1. 255. Poir. Dict. 8. 634. Don, Mill. 1. 330.

V. uniflora, Linn., var. *pubescens.* Regel, Fl. Ost-Sib. 1. 254.

Var. **eriocarpa.** Nutt. Genera, 1. 150. Ker, Bot. Reg. 5, **t. 390.** Torrey, Fl. U. S. 257. Hook. Fl. Bor.-Am. 1. 80. Torr. & Gray, Fl. 1. 142. Gray, Manual, 79.

V. eriocarpa. Schwein. l. c. 75 & 8. 268. Ging. in DC. Prodr. 1. 301. Sweet, Br. Fl. Gard. **t. 102.** Spreng. Syst. 1. 800. Don, Mill. 1. 330. Dietr. 1. 843. Maxim. l. c.

V. renifolia. Gray, Proc. Am. Acad. 8. 288. Macoun & Gibson, l. c. 316.

V. rostrata. Muhl. Cat. 26. Pursh, 174. Poir. Suppl. 4. 485. Röm. & Schult. Syst. 5. 373. Nutt. Genera, 1. 150. Schwein. l. c. 73. Ging. in DC. Prodr. 1. 298. Torrey, Fl. U. S. 256; Fl. N. Y. 1. 73. Spreng. Syst. 1. 801. Le Conte, l. c. 148. Reichenb. Icon. Bot. Exot. 2. 13, **t. 131.** Hook. Fl. Bor.-Am. 1. 78. Don, Mill. 1. 327. Beck, Bot. 41. Torr. & Gray, Fl. 1. 140. Bigel. Fl. Bost. 103. Dietr. 1. 844. Gray, Manual, 79.

V. rotundifolia. Michx. Fl. 2. 150. Persoon, 1. 254. Poir. Dict. 8. 627. Nutt. Genera, 1. 149. Röm. & Schult. Syst. 5. 358. Elliott, 1. 298. Schwein. l. c. 63. Ging. in DC. Prodr. 1. 295. Bigel. Fl. Bost. 102. Torrey, Fl. U. S. 1. 252; Fl.

N. Y. 1. 71. Spreng. Syst. 1. 798. Le Conte, l. c. 146. Reichenb. Icon. Bot. Exot. 2. 9, **t. 124.** Hook. Fl. Bor.-Am. 1. 77. Meyer, Pl. Lab. 89. Don, Mill. 1. 324. Beck, Bot. 39. Torr. & Gray, Fl. 1. 138. Dietr. 1. 841. Chapman, 34. Gray, Manual, 77.

V. sagittata. Ait. Hort. Kew. 3. 287. Muhl. Ind. Fl. Lanc. 178. Willd. Spec. 1. 1161. Persoon, 1. 254. Poir. Dict. 1. 620. Pursh, 172. Nutt. Genera, 1. 147. Röm. & Schult. Syst. 5. 352. Elliott, 1. 299. Schwein. l. c. 55. Reichenb. Icon. Bot. 1. 38, **t. 42, f. 88.** Ging. in DC. Prodr. 1. 294. Bigel. Fl. Bost. 101. Torrey, Fl. U. S. 1. 250; Fl. N. Y. 1. 71. Spreng. Syst. 1. 797. Le Conte, l. c. 143. Lodd. Cab. **t. 1471.** Don, Mill. 1. 323. Beck, Bot. 38. Darling. Fl. Cestr. 143. Torr. & Gray, Fl. 1. 138. Dietr. 1. 840. Nees, Pl. Wied, 4. Gray, Genera, 1. 186, **t. 80**; Struct. Bot. 392, **f. 711, 712**[b]; Manual, 78; Hall's Pl. Tex. 3. Chapman, 33. Willis, Pl. N. Jer. 8.

V. sagittæfolia. Salisb. Prodr. 130.

V. ciliata. Muhl. Cat. 25.

V. primulifolia. Pursh, 173, not Linn.

V. dentata. Pursh, 172. Poir. Suppl. 4. 485. Röm. & Schult. Syst. 5. 353. Lodd Cab. **t. 1485.**

V. ovata. Nutt. Genera, 1. 148. Röm. & Schult. Syst. 5. 359. Schwein. l. c. 58. Ging. in DC. Prodr. 1. 293. Torrey, Fl. U. S. 251. Spreng. Syst. 1. 798. Le Conte, l. c. 143. Hook. Fl. Bor.-Am. 1. 76. Don, Mill. 1. 323. Beck, Bot. 39. Darling. Fl. Cestr. 144. Bigel. Fl. Bost. 101. Dietr. 1. 841.

V. fimbriatula. Smith, Rees Cyc. n. 16.

V. Alleghaniensis. Röm. & Schult. Syst. 5. 560. Ging. in DC. Prodr. 1. 306. Le Conte, l. c. 153. Don, Mill. 1. 334.

V. emarginata. Le Conte, l. c. 142. Don, Mill. 1. 323.

V. sarmentosa. Dougl.; Hook. Fl. Bor.-Am. 1. 80. Torr. & Gray, Fl. 1. 143. Walp. Rep. 1. 218. Benth. Pl. Hartw. 298. Torrey, Pac. R. Rep. 4. 68; Bot. Wilkes, 237. Newberry, Pac. R. Rep. 6. 67. Boland. Cat. 5. Gray, Proc. Am. Acad. 8. 377.

V. rotundifolia ? Hook. Lond. Jour. Bot. 6. 73.

V. Selkirkii. Pursh; Goldie in Edinb. Phil. Jour. 6. 324. Ging. in DC. Prodr. 1. 305. Le Conte, l. c. 153. Hook. Fl. Bor.-Am. 1. 75. Don, Mill. 1. 334. Torr. & Gray, Fl. 1. 137. Walp. Rep. 1. 217. Torrey, Fl. N. Y. 1. 70. Gray, Manual, 78.

V. Kamtschatica. Ging. in Linn. 1. 406, fide Gray in Mem. Am. Acad. 6. 382 & Manual, 78. Regel, Fl. Ost-Sib. 1. 227, **t. 6, f. 7–15,** with syn.

V. Sheltoni. Torrey, Pac. R. Rep. 4. 67, **t. 2.** Newberry, same, 6. 67.

V. striata. Ait. Hort. Kew. 3. 290. Muhl. Ind. Fl. Lanc. 178. Willd. Spec. 1. 1166. Persoon, 1. 255. Poir. Dict. 8. 637. Pursh, 174. Nutt. Genera, 1. 150. Röm. & Schult. Syst. 5. 376. Elliott, 1. 301. Schwein. l. c. 76. Reichenb. Icon. Bot. 1. 45, **t. 54, f. 112.** Ging. in DC. Prodr. 1. 297. Spreng. Syst. 1. 800. Le Conte, l. c. 149. Don, Mill. 1. 326. Torr. & Gray, Fl. 1. 139. Dietr. 1. 843. Torrey, Fl. N. Y. 1. 73, **t. 8.** Chapman, 34. Gray, Manual, 79. Meehan, Am. Naturalist, 7. 563.

V. debilis. Michx. Fl. 1. 150. Persoon, 1. 255. Poir. Dict. 8. 637. Röm. & Schult. Syst. 5. 372. Le Conte, l. c. 152. Bigel. Fl. Bost. 102.

V. ochroleuca. Schwein. l. c. 69. Ging. in DC. Prodr. 1. 297. Torrey, Fl. U. S. 255. Spreng. Syst. 1. 800. Hook. Fl. Bor.-Am. 1. 77. Don, Mill. 1. 326. Beck, Bot. 40. Darling. Fl. Cestr. 146. Dietr. 1. 843.

V. repens. Schwein. l. c. 69.

V. Lewisiana. Ging. in DC. Prodr. 1. 298. Spreng. Syst. 1. 799. Don, Mill. 1. 326. Dietr. 1. 842.

V. TRICOLOR, Linn. Hook. f. Arct. Pl. 286 & 321. Gray, Manual, 80. Willis, Pl. N. Jer. 9.

Var. ARVENSIS. Ging. in DC. Prodr. 1. 303. Hook. Fl. 1. 81. Torr. & Gray, Fl. 1. 143. Torrey, Fl. N. Y. 1. 75. Chapman, 34. Gray, Manual, 80.

V. bicolor. Pursh, 175. Poir. Suppl. 4. 485. Nutt. Genera, 1. 151. Röm. & Schult. Syst. 5. 383. Schwein. l. c. 78. Spreng. Syst. 1. 803. Don, Mill. 1. 332. Hook. Jour. Bot. 1. 193. Dietr. 1. 845. Considered distinct by Hook. f. (l. c.)

V. tenella. Muhl. Cat. 25. Schwein. l. c. 78. Torrey, Fl. U. S. 1. 257; Ann. Lyc. N. Y. 2. 168. Le Conte, l. c. 151. Beck, Bot. 41.

V. acuta; primulæfolia.
adunca; canina.
affinis; cucullata.
albiflora; Canadensis.
Alleghaniensis; sagittata.
Allionii; canina.
amœna; blanda.
asarifolia; canina, cucullata.
attenuata; lanceolata.
aurea; Nuttallii.
barbata; cucullata.
bicolor; tricolor.
biflora & *Canadensis;* glabella.
chrysantha; Hallii.
ciliata; cucullata, sagittata.
clandestina; blanda.
concolor; Ionidium concolor.
congener; cucullata.
conspersa; canina.
cordata & *cordifolia;* cucullata.
debilis; canina, striata.
dentata; sagittata.
digitata; pedata.
Douglasii; chrysantha.
edulis; cucullata.
emarginata; sagittata.
epipsila; palustris.
eriocarpa; pubescens.
fimbriatula; sagittata.
flabellifolia; pedata.
gibbosa; hastata.
heterophylla; cucullata.
Kamtschatica; Selkirkii.
V. Labradorica; canina.
Langsdorffii; mirabilis.
Leconteana; blanda.
Lewisiana; striata.
linguæfolia; Nuttallii.
longipes & *Muhlenbergii;* canina.
obliqua; blanda, cucullata.
ochroleuca; striata.
ovata; sagittata.
palmata & *papilionacea;* cucullata.
pedatifida; delphinifolia.
pedunculata; Nuttallii.
Pennsylvanica; pubescens.
pinnata; pedata.
præmorsa; Nuttallii.
primulifolia; sagittata.
punctata; canina.
purpurea; aurea.
radicans; canina.
ranunculifolia; cucullata.
repens; striata.
rotundifolia; sarmentosa.
sagittæfolia; sagittata.
septemloba & *sororia;* cucullata.
Sequoiensis; lobata.
striata; glabella.
tenella; tricolor.
triloba; cucullata.
tripartita; hastata.
uliginosa; canina.
uniflora; pubescens.
villosa; cucullata.

CANELLACEÆ.

CANELLA alba. Murray, Linn. Syst. 4. 443. See Miers, Contrib. Bot. 1. 116; Griseb. Fl. W. Ind. 109. — Chapman, 43.

BIXINEÆ.

AMOREUXIA malvæfolia. Gray, Pl. Wright. 1. 29. — (Northern Mexico.)

A. Schiedeana. Planch. in Lond. Jour. Bot. 6. 140 & 306, **t. 1.** Gray, Pl. Wright. 2. 26, **t. 12, f. A**; Pl. Thurb. 305. Torrey, Mex. Bound. 44.

? A. palmatifida. DC. Prodr. 2. 638.

Euryanthe Schiedeana. Cham. & Schlecht. in Linn. 5. 225.

A. Wrightii. Gray, Pl. Wright. 2. 26; Proc. Am. Acad. 5. 176. Torrey, Mex. Bound. 44.

A. Schiedeana. Gray, Pl. Wright. 1. 29, **t. 3, f. B**, excl. syn.

FLACOURTIA racemosa. Presl, Rel. Haenk. 2. 93. Walp. Rep. 1. 205. Attributed to California, but without doubt erroneously.

POLYGALACEÆ.

KRAMERIA canescens. Gray, Pl. Wright. 1. 42 & 2. 32, not Willd. (Röm. & Schult. Syst. 3, Mant. 303; Berg, Bot. Zeit. 14. 766). Torrey, Pac. R. Rep. 7. 9; Mex. Bound. 49, **t. 13.** Walp. Ann. 4. 240.

K. lanceolata. Torrey, Ann. Lyc. N. Y. 2. 168. Don, Mill. 1. 371. Torr. & Gray, Fl. 1. 134 & 671; Pac. R. Rep. 2. 162. Eat. & Wr. 291. Dietr. Syn. 3. 627. Engelm. Wisliz. Rep. 4. Engelm. & Gray, Pl. Lindh. 4. Gray, same, 151; Genera, 2. 228, **t. 185, 186**; Pl. Wright. 1. 43 & 2. 32; Pl. Thurb. 300; Hall's Pl. Tex. 5. Scheele, Röm. Texas, 435. Torrey, Marcy's Rep. 283; Pac. R. Rep. 4. 76 & 7. 9; Mex. Bound. 49. Chapman, 86. Schnizl. Icon. **t. 233.** Wood, Bot. & Fl. 80. Young, Fl. Texas, 211.

? K. secundiflora. DC. Prodr. 1. 341. Benth. Pl. Hartw. 345. Berg, Bot. Zeit. 14. 752 & 797.

? K. pauciflora. DC. Prodr. 1. 341. Gray, Pl. Wright. 1. 43. Berg, l. c. 751.

? K. ixina. Benth. Pl. Hartw. 13. Referred to *K. pauciflora* by Berg, l. c.

K. parvifolia. Benth. Bot. Sulph. 6, **t. 1.** Walp. Rep. 5. 67. Torrey, Frem. Rep. 312 (Bot. Zeit. 5. 40); Mex. Bound. 49. Gray, Pl. Wright. 1. 41 & 2. 32. Berg, Bot. Zeit. 14. 766. Watson, King's Rep. 5. 416; Pl. Wheel. 6.

Var. **ramosissima.** Gray, ll. cc. Torrey, Mex. Bound. 49.

MONNINA Wrightii. Gray, Pl. Wright. 2. 31. Walp. Ann. 4. 239. Torrey, Mex. Bound. 49.

POLYGALA alba. Nutt. Genera, 2. 87. James, Cat. 186. DC. Prodr. 1. 330. Torrey, Ann. Lyc. N. Y. 2. 168; Nicol. Rep. 145; Frem. Rep. 87; Marcy's Rep. 282; Mex. Bound. 48. Spreng. Syst. 3. 168. Don, Mill. 1. 358. Torr. & Gray, Fl. 1. 131; Pac. R. Rep. 2. 126 & 162. Eat. & Wr. 366. Nees, Pl. Wied, 4. Engelm. & Gray, Pl. Lindh. 33. Hook. Lond. Jour. Bot. 6. 72. Engelm. Wisliz. Rep. 4; Pl. Upp. Miss. 188. Gray, Pl. Fendl. 30; Pl. Wright. 1. 38 & 2. 30; Pac. R. Rep. 12. 41; Ives's Rep. 9. Chapman, 85. Wood, Bot. & Fl. 79. Young, Fl. Tex. 210.

P. Senega, var. *tenuifolia.* Pursh, 750.

P. bicolor. HBK. Nov. Gen. 5. 394, **t. 507.** DC. Prodr. 1. 327. Spreng. Syst. 3. 168. Dietr. 4. 898. Seem. Bot. Herald, 269, including numerous species.

P. —— n. sp. ? Torrey, Ann. Lyc. N. Y. 2. 168.

P. Torreyi. Don, Mill. 1. 360.

P. Bey ichii. Torr. & Gray, Fl. 1. 130. Eat. & Wr. 367. Walp. Rep. 1. 237. Dietr. 4. 899.

P. scoparia. Benth. Pl. Hartw. 8, not HBK.

P. aparinoides. Hook. & Arn. Bot. Beechey, 277, fide Seemann, l. c.

P. ambigua. Nutt. Genera, 2. 89. Barton, Fl. Phil. 2. 70. DC. Prodr. 1. 329. Spreng. Syst. 3. 169. Torrey, Compend. 261; Fl. N. Y. 1. 151. Don, Mill. 1. 357. Beck, Bot. 45. Eat. & Wr. 366. Darling. Fl. Cestr. 402. Gray, Manual, 122.

P. Baldwinii. Nutt. Genera, 2. 90. DC. Prodr. 1. 329. Elliott, 2. 187. Spreng. Syst. 3. 171. Don, Mill. 1. 358. Torr. & Gray, Fl. 1. 128. Eat. & Wr. 366. Dietr. 4. 898. Chapman, 83.

P. Boykinii. Nutt. in Jour. Acad. Philad. 7. 86. Torr. & Gray, Fl. 1. 131 & 670. Eat. & Wr. 366. Walp. Rep. 1. 237. Chapman, 84. Wood, Cl.-Book, 296; Bot. & Fl. 80.

P. bicolor. Hook. Jour. Bot 1. 194. Torr. & Gray, Fl. 1. 130. Eat. & Wr. 366.

P. brevifolia Nutt. Genera, 2. 89. DC. Prodr. 1. 328. Torrey, Compend. 260. Spreng. Syst. 3. 169. Don, Mill. 1. 355. Beck, Bot. 44. Chapman, 84. Gray, Manual, 122.

P. cruciata. Torr. & Gray, Fl. 1. 127, in part.

P. Chapmanii. Torr. & Gray, Fl. 1. 131. Eat. & Wr. 367. Walp. Rep. 1. 237. Chapman, 83. Wood, Cl.-Book. 295; Bot. & Fl. 79.

P. cruciata. Linn. Spec. 706. Hill, Veg. Syst. 22, **t. 53, f. 4.** Willd. Spec. 2. 897. Michx. Fl. 2. 52. Poir. Dict. 5. 502. Ait. f. Hort. Kew. 4. 247. Nutt. Genera, 2. 89. Elliott, 2. 183. Bigel. Fl. Bost. 284. DC. Prodr. 1. 328. Torrey, Compend. 261; Fl. N. Y. 1. 150. Spreng. Syst. 3. 169. Hook. Fl. Bor.-Am. 1. 85. Don, Mill. 1. 355. Beck, Bot. 44. Torr. & Gray, Fl. 1. 127 & 670. Eat. & Wr. 366. Dietr. 4. 898. Gray, Genera, 2. 223, **t. 183, f. 12, 13** (seed); Manual, 121. Chapman, 84. Wood, Bot. & Fl. 80.

P. cuspidata. Hook. Jour. Bot. 1. 194, not DC.

P. cymosa. Walter, 179. Torr. & Gray, Fl. 1. 128 & 670. Eat. & Wr. 366. Dietr. 4. 598. Gray, Pl. Wright. 1. 41; Manual, 120. Walp. Ann. 4. 238. Chapman, 82. Wood, Cl.-Book, 296.

P. corymbosa. Michx. Fl. 2. 54, in part. Elliott, 2. 187. DC. Prodr. 1. 329. Spreng. Syst. 3. 171. Don, Mill. 1. 358. Hook. Jour. Bot. 1. 195. Dietr. 4. 898.

P. graminifolia. Poir. Dict. 5. 500. DC. Prodr. 1. 329. Don, Mill. 1. 358.

P. attenuata. Nutt. Genera, 2. 90. Spreng. Syst. 3. 171.

P. acutifolia. Torr. & Gray, Fl. 1. 128. Eat. & Wr. 366. Walp. Rep. 1. 237. Dietr. 4. 898.

P. Curtissii. Gray, Manual, 121.

P. fastigiata. Nutt. Genera, 2. 89. DC. Prodr. 1. 328. Torrey, Compend. 261. Don, Mill. 1. 356. Beck, Bot. 44. Hook. Jour. Bot. 1. 194. Walp. Ann. 3. 827. Chapman, 83. Lesqx. Fl. Ark. 355. Gray, Manual, 121.

P. sanguinea. Torr. & Gray, Fl. 1. 126, excl. syn. Eat. & Wr. 366.

P. grandiflora. Walter, 179. Torr. & Gray, Fl. 1. 132 & 670. Eat. & Wr. 367. Gray, Pl. Wright. 1. 41. Chapman, 84. Wood, Cl.-Book, 294; Bot. & Fl. 79.

P. Senega, var. *rosea.* Michx. Fl. 2. 53. Pursh, 465.

P. pubescens. Muhl. Cat. 66. Nutt. Genera, 2. 87. Elliott, 2. 180. DC. Prodr. 1. 330. Spreng. Syst. 3. 169. Don, Mill. 1. 360. Hook. Jour. Bot. 1. 195.

P. Senega. St. Hil. & Moq. in Mem. Mus. 17, **t. 27, f. 17** & **t. 28, f. 10.**

P. Muhlenbergii. Don, Mill. 1. 358.

P. hemipterocarpa. Gray, Pl. Wright. 2. 31. Walp. Ann. 4. 238. Torrey, Mex. Bound. 49.

P. Hookeri. Torr. & Gray, Fl. 1. 671. Chapman, 84. Wood, Bot. & Fl. 80.

P. attenuata. Hook. Jour. Bot. 1. 195, not Nutt. Torr. & Gray, Fl. 1. 133. Eat. & Wr. 367. Walp. Rep. 1. 237. Dietr. 4. 899.

P. incarnata. Linn. Spec. 701, excl. Pluk. Ic. Hill, Veg. Syst. 22, **t. 51, f. 1.** Willd. Spec. 3. 871. Michx. Fl. 2. 52. Poir. Dict. 5. 490. Pursh, 464. James, Long's Exped. 1. 63. Elliott, 2. 185. DC. Prodr. 1. 327. Spreng. Syst. 3. 169. Hook. Fl. Bor.-Am. 1. 84; Jour. Bot. 1. 194. Don, Mill. 1. 355. Beck, Bot. 44. Torr. & Gray, Fl. 1. 129. Eat. & Wr. 395. Dietr. 4. 898. Engelm. & Gray, Pl. Lindh. 3. Scheele, Röm. Texas, 436. Seem. Bot. Herald, 269. Parry, Pl. Minn. 610. Torrey, Marcy's Rep. 283. Bertol. Bot. Misc. 15. 20. Chapman, 84. Gray, Manual, 121; Hall's Pl. Tex. 5.

P. leptocaulis. Torr. & Gray, Fl. 1. 130. Eat. & Wr. 366. Walp. Rep. 1. 237. Dietr. 4. 898. Engelm. & Gray, Pl. Lindh. 3. Gray, Hall's Pl. Tex. 5.

P. leptostachys. Shuttl.; Gray, Pl. Wright. 1. 41. Chapman, 84. Wood, Bot. & Fl. 80.

P. Lindheimeri. Gray, Pl. Lindh. 150; Pl. Wright. 1. 39 & 2. 30; Hall's Pl. Tex. 5. Walp. Ann. 2. 80. Torrey, Pac. R. Rep. 4. 76; Mex. Bound. 48.

P. lutea. Linn. Spec. 705. Hill, Veg. Syst. 22, **t. 52, f. 2.** Willd. Spec. 2. 894. Michx. Fl. 2. 54, in part. Poir. Dict. 5. 501. Ait. f. Hort. Kew. 4. 246. Nutt. Genera, 2. 88. Elliott, 2. 185. DC. Prodr. 1. 328. Torrey, Compend. 260. Spreng. Syst. 3. 170. Don, Mill. 1. 356. Beck, Bot. 45. Hook Jour. Bot. 1. 194. Torr. & Gray, Fl. 1. 127. Eat. & Wr. 366. Dietr. 4. 898. Gray, Pl. Wright. 1. 41; Manual, 120. Chapman, 83. Lesqx. Fl. Ark. 355.

P. Pseudo-senega. Bertol. Bot. Misc. 15. 21, **t. 3, f. 2** (Bot. Zeit. 14. 784), fide Gray in Am. Jour. Sci. 2. 24. 287.

P. macradenia. Gray, Pl. Wright. 1. 39 & 2. 30. Torr. & Gray, Pac. R. Rep. 2. 162. Walp. Ann. 4. 238. Torrey, Mex. Bound. 49.

P. nana. DC. Prodr. 1. 328. Don, Mill. 1. 356. Hook. Jour. Bot. 1. 194. Torr. & Gray, Fl. 1. 127. Dietr. 4. 898. Gray, Pl. Wright. 1. 41. Chapman, 83. Wood, Cl.-Book, 296; Bot. & Fl. 79.

P. lutea, var. *nana.* Michx. Fl. 2. 54.

P. viridescens. Walter, 178? Nutt. Genera, 2. 85; not Linn. Elliott, 2. 186. Spreng. Syst. 3. 170. Eat. & Wr. 366.

P. Nuttallii. Torr. & Gray, Fl. 1. 670, excl. syn. Chapman, 83. Gray, Manual, 121. Buchan, Canad. Naturalist, 14. 293. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 320.

P. sanguinea. Nutt. Genera, 2. 88. Barton, Comp. Fl. Phil. 2. 70. Elliott, 2. 184. Torrey, Compend. 260. Beck, Bot. 45.

P. ambigua. Torr. & Gray, Fl. 1. 130; not Nutt. Dietr. 4. 898.

? *P. linifolia.* Scheele, Linn. 17. 335. Walp. Rep. 5. 63.

P. ovalifolia. DC. Prodr. 1. 331. Gray, Pl. Lindh. 151. Referred to *P. Americana*, Mill., by Seemann, Bot. Herald, 270, with numerous other species.

P. Natkana. Moç. & Sesse, Icon. Ined. **t. 29.** DC. Prodr. 1. 330. Spreng. Syst. 3. 170. Don, Mill. 1. 360. Torr. & Gray, Fl. 1. 133 & 671. Eat. & Wr. 366.

P. ovatifolia. Gray, Pl. Wright. 1. 39 & 2. 30. Walp. Ann. 4. 237. Torrey, Mex. Bound. 48.

P. paniculata. Linn. Amœn. 5. 402. Swartz, Obs. 272, **t. 6, f. 2.** Seem. Bot Herald, 269. (2138 Berl.)

P. paucifolia. Willd. Spec. 3. 880. Pursh, 464. Poir. Suppl. 4. 476. Nutt. Genera, 2. 87. Barton, Fl. N. Am. 2. 59, **t. 56.** Richards. Frankl. Journ. 16. Elliott, 2. 180. DC. Prodr. 1. 331. Bigel. Fl. Bost. 284. Torrey, Compend. 260; Fl. N. Y. 1. 152. Spreng. Syst. 3. 166. Grah. in Edinb. Phil. Jour. 1828, 175. Hook. Bot. Mag. **t. 2852**; Fl. Bor.-Am. 1. 86. Raf. Med. Bot. 1. 63, **f. 75.** Don, Mill. 1. 361. Beck, Bot. 46. Torr. & Gray, Fl. 1. 132. Eat. & Wr. 365. Dietr. 4. 899. Gray, Genera, 2. 224, **t. 184**; Struct. Bot. 411, **f. 789–795**; Manual, 122. Chapman, 84. Matthew, Fl. Acad. 16. Verlot, Pl. Alp. 230, **t. 17.**

P. uniflora. Michx. Fl. 2. 53. Poir. Dict. 5. 501. Pursh, 464. DC. Prodr. 1. 331. Spreng. Syst. 3. 171. Hook. Fl. Bor.-Am. 1. 87. Don, Mill. 1. 361. Beck, Bot. 46.

P. purpurea. Ait. f. Hort. Kew. 4. 244.

Triclisperma grandiflora. Raf. Specch. 1. 117.

P. polygama. Walter, 179. Poir. Dict. 5. 500. Nutt. Genera, 2. 75. Elliott, 2. 181. DC. Prodr. 1. 330. Torrey, Compend. 260; Fl. N. Y. 1. 152. Hook. Fl. Bor.-Am. 1. 86, **t. 29**; Jour. Bot. 1. 195. Don, Mill. 1. 359. Beck, Bot. 45. Torr. & Gray, Fl. 1. 132. Eat. & Wr. 365. Dietr. 4. 899. Chapman, 84. Gray, Manual, 122; Hall's Pl. Tex. 5.

P. rubella. Willd. Spec. 3. 875. Pursh, 464. Poir. Suppl. 4. 475. DC. Prodr. 1. 330. Bigel. Fl. Bost. 282; Med. Bot. 3. 129, **t. 54.** Spreng. Syst. 3. 168. Don, Mill. 1. 358. Lindl. Fl. Med. 126.

P. puberula. Gray, Pl. Wright. 1. 40 & 2. 30; Proc. Am. Acad. 5. 154. Walp. Ann. 4. 238. Torrey, Mex. Bound. 48. Referred to *P. Americana* by Seemann, Bot. Herald, 270.

P. pubescens. Schlecht. in Linn. 14. 160.

P. ramosa. Elliott, 2. 186. Beck, Bot. 46. Hook. Jour. Bot. 1. 195. Gray, Pl. Wright. 1. 41; Manual, 120. Chapman, 82.

P. cymosa. Poir. Dict. 5. 500; not Walt.

P. corymbosa. Nutt. Genera, 2. 89; not Michx. Torrey, Compend. 261. Torr. & Gray, Fl. 1. 128. Eat. & Wr. 366.

P. Rugelii. Shuttleworth; Chapman, Coult. Bot. Gazette, 3. 4.

P. sanguinea. Linn. Spec. 705. Hill, Veg. Syst. 22, **t. 53, f. 2.** Willd. Spec. 2. 896. Michx. Fl. 2. 52. Poir. Dict. 5. 502. Ait. f. Hort. Kew. 4. 247. Pursh, 465. Barton, Fl. N. Am. 2, **t. 46.** Bigel. Fl. Bost. 282. DC. Prodr. 1. 328. Don, Mill. 1. 356. Torrey, Fl. N. Y. 1. 149. Dietr. 4. 898. Gray, Pl. Fendl. 30; Manual, 121. Chapman, 83.

P. purpurea. Nutt. Genera, 2. 88, not Ait. Barton, Fl. N. Am. 2. 33, **t. 47.** Elliott, 2. 184. DC. Prodr. 1. 328. Torrey, Compend. 260. Spreng. Syst. 3. 170. Don, Mill. 1. 356. Beck, Bot. 44. Darling. Fl. Cestr. 401. Torr. & Gray, Fl. 1. 127. Eat. & Wr. 366. Dietr. 4. 898. Parry, Pl. Minn. 610.

P. viridescens. Linn. Spec. 705, excl. syn. Gron. Hill, Veg. Syst. 22, **t. 52, f. 3.** Willd. Spec. 2. 895. Poir. Dict. 5. 502. Pursh, 465.

P. scoparia. HBK. Nov. Gen. 5. 399. DC. Prodr. 1. 329. Spreng. Syst. 3. 168. Seem. Bot. Herald, 269.

P. spinescens. Gillies, in Hook. Bot. Misc. 3. 146, fide Seemann, l. c.

Var. **multicaulis.** Gray, Pl. Wright. 1. 38 & 2. 30. Torrey, Mex. Bound. 48.

P. Senega. Linn. Spec. 704. Hill, Veg. Syst. 22, **t. 52, f. 1.** Ait. Hort. Kew, 3. 6. Walter, 178. Willd. Spec. 2. 894. Michx. Fl. 2. 53, in part. Poir. Dict. 5. 499, in part. Nouv. Duham. 3. 167. Sims, Bot. Mag. **t. 1051.** Pursh, 465, in part. Bigel. Med. Bot. 2. 97, **t. 30**; Fl. Bost. 283. Richards. Frankl. Journ. 16. Elliott, 2. 182. DC. Prodr. 1. 330. Spreng. Syst. 3. 170. Torrey, Compend. 260; Fl. N. Y. 1. 151; Nicol. Rep. 145. Lodd. Cab. **t. 1380.** Hook. Fl. Bor.-Am. 1. 85. Don, Mill. 1. 359. Woodv. Med. Bot. 3. 452, **t. 162.** Beck, Bot. 45. Darling. Fl. Cestr. 403. Lindl. Fl. Med. 125. Torr. & Gray, Fl. 1. 131. Eat. & Wr. 366. Gray, Genera, 2. 223, **t. 183**; Manual, 122. Parry, Pl. Minn. 610. Burnett, Encyc. Pl. **t. 180.** Engelm. Pl. Upp. Miss. 188. Chapman, 84. Hook. f. Arct. Pl. 288.

Senega officinalis. Spach, Hist. Veg. 7. 129.

P. setacea. Michx. Fl. 2. 52. Poir. Dict. 5. 503. Elliott, 2. 183. DC. Prodr. 1. 328. Spreng. Syst. 3. 170. Don, Mill. 1. 356. Torr. & Gray, Fl. 1. 129. Eat. & Wr. 366. Dietr. 4. 898. Chapman, 68. Wood, Cl.-Book, 295; Bot. & Fl. 79.

P. subspinosa. Watson, Am. Naturalist, 7. 299.

P. verticillata. Linn. Spec. 706. Hill, Veg. Syst. 22, **t. 53, f. 3.** Willd. Spec. 2. 897. Michx. Fl. 2. 53. Poir. Dict. 5. 503. Ait. f. Hort. Kew. 4. 247. Nutt. Genera, 2. 88. Elliott, 2. 182. Bigel. Fl. Bost. 284. DC. Prodr. 1. 329. Torrey, Compend. 261; Fl. N. Y. 1. 150; Nicol. Rep. 145. Spreng. Syst. 3. 169. Hook. Fl. Bor.-Am. 1. 85; Jour. Bot. 1. 195. Don, Mill. 1. 357. Beck, Bot. 45. Darling. Fl. Cestr. 402. Torr. & Gray, Fl. 1. 130. Eat. & Wr. 366. Dietr. 4. 898. Parry, Pl. Minn. 610. Seem. Bot. Herald, 269 (including *P. galioides*, Poir., *ambigua*, Nutt., & *leptocaulis*, Torr. & Gray). Engelm. Pl. Upp. Miss. 188. Chapman, 84. Gray, Manual, 122; Hall's Pl. Tex. 5. Porter, Fl. Col. 19.

P. Xanti. Gray, Proc. Am. Acad. 5. 153. (Lower California.)

P. acutifolia; cymosa.
ambigua; Nuttallii.
Americana; ovalifolia, puberula.
aparinoides; alba.
attenuata; cymosa, Hookeri.
Beyrichii; alba.
bicolor; alba, Boykinii.
cornuta; Nutkana.
corymbosa; cymosa, ramosa.
cruciata; brevifolia.
cucullata; Nutkana.
cuspidata; cruciata.
cymosa; ramosa.
galioides; verticillata.
graminifolia; cymosa.
linifolia; Nuttallii.

P. lutea; nana.
Muhlenbergii; grandiflora.
ovatifolia; ovalifolia.
Pseudo-senega; lutea.
pubescens; grandiflora, puberula.
purpurea; paucifolia, sanguinea.
rubella; polygama.
sanguinea; fastigiata, Nuttallii.
scoparia; alba.
Senega; alba, grandiflora
spinescens; scoparia.
Torreyi; alba.
uniflora; paucifolia.
viridescens; nana, sanguinea.
—— ?; alba.

FRANKENIACEÆ.

FRANKENIA grandifolia. Cham. & Schlecht. in Linn. 1. 35. Schult. Syst. 7. 70 & 1619. Don, Mill. 1. 376. Presl, Rel. Haenk. 2. 3. Hook. & Arn. Bot. Beechey, 135. Torr. & Gray, Fl. 1. 168. Eat. & Wr. 246. Dietr. 2. 1070. Walp.

Rep. 1. 259. Benth. Bot. Sulph. 7. Torrey, Pac. R. Rep. 4. 76; Mex. Bound. 36, **t. 5**; Bot. Wilkes, 240. Newberry, Pac. R. Rep. 6. 70. Gray, Ives's Rep. 7. Kellogg, Proc. Calif. Acad. 1. 3. Boland. Cat. 8. Watson, Pl. Wheel. 6.

Velezia latifolia. Esch. in Mem. Acad. Petr. 10. 286 (Linn. Litt.-Ber. 1828, 149). Dietr. 2. 924.

F. latifolia. Presl, Rel. Haenk. 2. 3. Schult. Syst. 7. 1620. Dietr. 2. 1070.

F. Jamesii. Torrey; Gray, Proc. Am. Acad. 8. 622. Porter, Fl. Col. 12.

CARYOPHYLLACEÆ.

ALSINE; see under *Arenaria.*

Drummondii; Stellaria Nuttallii.
glabra; Arenaria Grœnlandica.
macropetala; Stellaria macropetala.
media; Stellaria media.
Mexicana; Arenaria verna.
A. microsperma; Arenaria Pitcheri.
nardifolia; Arenaria capillaris.
Nuttallii; Stellaria Nuttallii.
Rossii; Arenaria stricta.
rubella; Arenaria verna.
Walteri; Stellaria uniflora.

ARENARIA aculeata. Watson, King's Rep. 5. 40.

A. arctica. Stev.; DC. Prodr. 1. 404. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 355 & Regel, Fl. Ost-Sib. 1. 338 & 346 (under *Alsine*); Hook. f. Arct. Pl. 287 & 322.—Cham. & Schlecht. in Linn. 1. 54. Hook. Fl. Bor.-Am. 1. 100 (excl. var. γ.), **t. 34, f. A.** Meyer, Pl. Lab. 92. Torr. & Gray, Fl. 1. 181, in part. Hook. & Arn. Bot. Beechey, 122. Seem. Bot. Herald, 26. Rothr. Alask. 444.

A. laricifolia. Pursh, 319, not Linn. Cham. & Schlecht. l. c. Hook. Fl. Bor.-Am. 1. 98. Torr. & Gray, Fl. 1. 179. Eat. & Wr. 132.

Var. **breviscapa.** Regel, Fl. Ost-Sib. 1. 347.

A. arctica, var. *β. grandiflora.* Hook. Fl. Bor.-Am. 1. 100, **t. 34, f. B.** Torr. & Gray, Fl. 1. 181. Durand, Pl. Kane, 188.

Var. (?) **cæspitosa.**

A. laricifolia, var. *cæspitosa.* Torrey, Bot. Wilkes, 244.

A. Benthamii. Fenzl; Torr. & Gray, Fl. 1. 675. Dietr. 2. 1562. Gray, Pl. Wright. 2. 18; Hall's Pl. Tex. 5. Torrey, Mex. Bound. 36.

A. monticola. Buckl. Proc. Acad. Philad. 1861, 449; fide Gray, same, 1862, 161.

A. biflora, not Linn. For syn. see (under *Alsine*) Fenzl, Ledeb. Fl. Ross. 1. 355; Regel, Fl. Ost-Sib. 1. 338 & 348. Referred to *A. arctica* by Hook. f. Arct. Pl. 322.

Alsine biflora, Wahl. Greville, Mem. Soc. Wern. 3. 429. Lange, Pl. Grönl. 132.

Var. **carnosula.**

Alsine biflora, var. *carnosula*, Fenzl. Regel, Fl. Ost-Sib. 1. 349. Gray, Proc. Acad. Philad. 1863, 59.

Arenaria alpina. Porter, Fl. Col 14. Rothr. Pl. Wheel. 35.

Var. **obtusa.**

A. thymifolia. James, Cat. 181.

A. obtusa. Torrey, Ann. Lyc. N. Y. 2. 170. Don, Mill. 1. 433. Eat. & Wr. 133. Dietr. 2. 1558.

A. arctica, var. *stenopetala.* Hook. Fl. Bor.-Am. 1. 100.

A. arctica, var. γ. (*obtusa*). Torr. & Gray, Fl. 1. 181. Gray, Am. Jour. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 59. Watson, King's Rep. 5. 41. Porter, Fl. Col. 14. Rothr. Pl. Wheel. 35.

A. arctica. Porter, Hayd. Rep. 1870, 473; 1871, 479. Coulter, same, 762.

A. brevifolia. Nutt.; Torr. & Gray, Fl. 1. 180. Eat. & Wr. 134. Dietr. 2. 1561. Wood, Bot. & Fl. 56.

Alsine brevifolia. Chapman, 49. Wood, Cl.-Book, 260.

A. Californica. Brewer; Boland, Cat. 6.

A. brevifolia, var. (?) *Californica.* Gray, Proc. Calif. Acad. 3. 101.

A. capillaris. Poir. Dict. 6. 380. See syn. in Ledeb. Fl. Ross. 1. 367 (& 366, under *A. formosa* & *lychnidea*); Regel, Fl. Ost-Sib. 1. 366.

Var. **nardifolia.** Regel, l. c. 372.

A. nardifolia, Ledeb. Fl. Alt. 2. 166; Icon. Fl. Ross. **t. 6.** Hook. Fl. Bor.-Am. 1. 98, **t. 32.** Don, Mill. 1. 432. Torr. & Gray, Fl. 1. 178 & 674. Eat. & Wr. 133. Dietr. 2. 1557. Gray, Ives's Rep. 7.

A. formosa. Hook. f. Arct. Pl. 287 & 322. Watson, King's Rep. 5. 39; Pl. Wheel. 6. Torrey, Bot. Wilkes, 243.

Alsine nardifolia. Anderson, Cat. 118.

A. ciliata. Linn. Spec. 425. See syn. in DC. Prodr. 1. 411; Fenzl, Ledeb. Fl. Ross. 1. 370. — Hook. Trans. Linn. Soc. 14. 308. Torr. & Gray, Fl. 1. 182. Eat. & Wr. 133. Hook. f. Arct. Pl. 287.

Var. **humifusa.** Hornem.; Lange, Pl. Groenl. 132.

A. congesta. Nutt.; Torr. & Gray, Fl. 1. 178. Eat. & Wr. 132. Dietr. 2. 1558. Torrey, Frem. Rep. 87; Bot. Wilkes, 243. Hook. in Lond. Journ. Bot. 6. 74. Anderson, Cat. 118. Porter, Hayd. Rep. 1870, 473; 1871, 479; Fl. Col. 13. Watson, King's Rep. 5. 39. Coulter, Hayd. Rep. 1872, 762. Brew. & Wats. Bot. Calif. 1. 69.

Brewerina suffrutescens. Gray, Proc. Am. Acad. 8. 620.

A. Douglasii. Torr. & Gray, Fl. 1. 674. Durand, Pl. Pratten. 83. Boland. Cat. 6. Brew. & Wats. l. c.

A. verna, var. *β.* Hook. & Arn. Bot. Beechey, 325.

Alsine Douglasii. Fenzl; fide Torr. & Gray, l. c. Benth. Pl. Hartw. 299. Torrey, Pac. R. Rep. 4. 69; Mex. Bound. 36.

Greniera Douglasii. Gay, Ann. Sci. Nat. 3. 4. 27.

A. fasciculata. Pursh, 319. Hook. Fl. Bor.-Am. 1. 101. Torr. & Gray, Fl. 1. 182. Eat. & Wr. 132. To be excluded; not American.

A. Fendleri. Gray, Pl. Fendl. 13; Ives's Rep. 7; Am. Jour. Sci. 2. 33, 405; Proc. Acad. Philad. 1863, 59. Walp. Ann. 2. 94. Torr. & Gray, Pac. R. Rep. 2. 126. Torrey, same, 4. 69. Porter, Hayd. Rep. 1870, 473; 1871, 479; Fl. Col. 13. Watson, King's Rep. 5. 40 & 417. Rothr. Pl. Wheel. 35.

Var. **glabrescens.** Watson, King's Rep. 5. 40.

Var. **diffusa.** Porter, Fl. Col. 13.

A. Franklinii. Dougl.; Hook. Fl. Bor.-Am. 1. 101, **t. 35.** Don, Mill. 1. 436. Torr. & Gray, Fl. 1. 178. Hook. & Arn. Bot. Beechey, 326. Eat. & Wr. 133. Dietr. 2. 1560. Engelm. Pl. Upp. Miss. 133. Torrey, Bot. Wilkes, 244.

Var. **minor.** Hook. & Arn. l. c.

A. Hookeri. Nutt.; Torr. & Gray, Fl. 1. 178. Eat. & Wr. 133. Dietr. 2. 1558. Hook. in Lond. Jour. Bot. 6. 74.

A. glabra. Michx. Fl. 1. 274. Poir. Dict. 6. 370. Pursh, 318. DC. Prodr. 1. 407. Spreng. Syst. 2. 399. Don, Mill. 1. 436. Beck, Bot. 52. Torr. & Gray, Fl. 1. 180. Eat. & Wr. 132. Dietr. 2. 1560. Gray, Manual, 91.

Alsine glabra. Fenzl, Ann. Wein. Mus., in part. Gray, Manual, 2 ed. 58. Chapman, 49.

A. Grœnlandica. Spreng. Syst. 2. 402. Meyer, Pl. Lab. 92. Torr. & Gray, Fl. 1. 180. Eat. & Wr. 133. Torrey, Fl. N. Y. 1. 95, **t. 15.** Durand, Pl. Kane, 188. Lange, Pl. Grönl. 132. Hook. f. Arct. Pl. 287 & 322. Gray, Manual, 91.

Stellaria Grœnlandica. Retz. Fl. Scand. 2 ed. 107. Willd. Spec. 2. 715. Vahl, Act. Hafn. 4². 170; Fl. Dan. 7, **t. 1210.** Poir. Dict. 7. 421. DC. Prodr. 1. 398. Don, Mill. 1. 430. Dietr. 2. 1555.

? *Stellaria Labradorica.* Schrank, Pfl. Lab. 24. Meyer, Pl. Lab. 93.

Arenaria glabra. Torrey, Fl. U. S. 455, not Michx. Bigel. Fl. Bost. 196.

Alsine glabra. Fenzl, l. c., in part.

Alsine Grœnlandica. Gray, Manual, 2 ed. 58. Matthew, Pl. Acad. 8.

A. lanuginosa. Rohrb. in Mart. Fl. Bras. fasc. 56, 274, **t. 63,** & syn.; Linn. 37. 260.

Spergulastrum lanuginosum. Michx. Fl. 1. 275. Poir. Dict. 7. 308. Don, Mill. 1. 448. Kunze, Linn. 20. 50.

Micropetalon lanuginosum. Persoon, 1. 509. Elliott, 1. 522. Spreng. Syst. 2. 416. Dietr. 2. 1590.

A. alsinoides. Willd.; Schlecht. in Berl. Mag. 7. 201, not Raddi.

Stellaria elongata. Nutt. Genera, 1. 289. DC. Prodr. 1. 399. Spreng. Syst. 2. 393. Don, Mill. 1. 431. Dietr. 2. 1556.

A. diffusa. Elliott, 1. 519. Hook. Jour. Bot. 1. 196. Gray, Pl. Wright. 2. 18; Hall's Pl. Tex. 5. Griseb. Fl. W. Ind. 55. Torrey, Pac. R. Rep. 4. 69; Mex. Bound. 36. Chapman, 49. Wood, Cl.-Book, 259; Bot. & Fl. 56.

A. nemorosa. HBK. Nov. Gen. 6. 28. DC. Prodr. 1. 408.

Stellaria lanuginosa. Torr. & Gray, Fl. 1. 187 & 675. Gray, Pl. Fendl. 13.

A. lateriflora. Linn. Spec. 423. See syn. (under *Moehringia*) in Ledeb. Fl. Ross. 1. 371; Regel, Fl. Ost-Sib. 1. 376.—Pursh, 317. Goldie, Edinb. Phil. Jour. 6. 327. Richards. Frankl. Journ. 10. DC. Prodr. 1. 412. Torrey, Fl. U. S. 454; Nicol. Rep. 146. Bigel. Fl. Bost. 192. Spreng. Syst. 2. 395. Hook. Fl. Bor.-Am. 1. 102, **t. 36.** Don, Mill. 1. 440. Bong. Sitch. 128. Beck, Bot. 53. Darling. Fl. Cestr. 277. Torr. & Gray, Fl. 1. 182 & 675. Eat. & Wr. 133. Dietr. 2. 1564. Seem. Bot. Herald, 51. Hook. f. Arct. Pl. 287. Rothr. Fl. Alask. 444. Gray, Manual, 91. Watson, King's Rep. 5. 41. Porter, Hayd. Rep. 1871, 479; Fl. Col. 14. Coulter, Hayd. Rep. 1872, 762. Rothr. Pl. Wheel. 35.

? *A. Pennsylvanica.* Muhl. Ind. Fl. Lanc. 169.

A. buxifolia. Poir. Dict. 6. 362. DC. Prodr. 1. 411. Spreng. Syst. 2. 396. Hook. Fl. Bor.-Am. 1. 101. Don, Mill. 1. 439. Torr. & Gray, Fl. 1. 182. Eat. & Wr. 133. Dietr. 2. 1563.

Stellaria biflora. Pursh, 317.

A. Haenkeana. Bartl.; Presl, Rel. Haenk. 2. 15.

Moehringia lateriflora. Fenzl, Ann. Mus. Wien. 1. 18 & 38. Torrey, Fl. N. Y. 1. 96; Bot. Wilkes, 246. Gray, Genera, 2. 36, **t. 112**; Pac. R. Rep. 12. 41; Struct. Bot. 396, **f. 724–726**; Manual, 2 ed. 58; Proc. Acad. Philad. 1863, 59. Engelm. Pl. Upp. Miss. 186. Cooper, Pac. R. Rep. 12. 56. Pl. Bourgeau, 255.

A. macrocarpa. Pursh, 318. Poir. Suppl. 5. 7. DC. Prodr. 1. 405. Spreng. Syst. 2. 399. Cham. & Schlecht. in Linn. 1. 55. Hook. Fl. Bor.-Am. 1. 101. Don, Mill. 1. 434. Torr. & Gray, Fl. 1. 182 & 675. Eat. & Wr. 132. Dietr. 2. 1558. Hook. f. Arct. Pl. 287. Rothr. Alask. 444.

Alsine macrocarpa. Fenzl, Ann. Mus. Wien. 1. 18; Ledeb. Fl. Ross. 1. 353. Regel, Fl. Ost-Sib. 1. 354, **t. 8, f. 6–19,** & syn. Walp. Ann. 7. 306.

A. macrophylla. Hook. Fl. Bor.-Am. 1. 102, **t. 37.** Don, Mill. 1. 440. Torr. & Gray, Fl. 1. 182. Eat. & Wr. 133. Dietr. 2. 1564. Torrey, Pac. R. Rep. 4. 69. Cooper, same, 12. 56. Gray, Proc. Am. Acad. 8. 378.

Moehringia umbrosa. Gray, Pl. Fendl. 13; Pl. Wright. 2. 18, not Fenzl.
Moehringia macrophylla. Torrey, Bot. Wilkes, 246.

A. Michauxii. Hook. f. Arct. Pl. 287 & 322.
? *A. setacea.* Muhl. Ind. Fl. Lanc. 169.
A. stricta. Michx. Fl. 1. 274. Poir. Dict. 6. 376. Pursh, 319. Elliott, 1. 521. Torrey, Fl. U. S. 455; Fl. N. Y. 1. 95. DC. Prodr. 1. 403. Bigel. Fl. Bost. 191. Spreng. Syst. 2. 404. Hook. Fl. Bor.-Am. 1. 99, **t. 33.** Don, Mill. 1. 433. Beck, Bot. 52. Darling. Fl. Cestr. 276. Torr. & Gray, Fl. 1. 179. Eat. & Wr. 132. Dietr. 2. 1558. Gray, Manual, 91; Hall's Pl. Tex. 5.
Alsine Michauxii. Fenzl, Ann. Mus. Wien. 1. 18. Engelm. Pl. Upp. Miss. 185. Torrey, Pac. R. Rep. 4. 69. Gray, Manual, 2 ed. 58. Chapman, 49. Regel, Fl. Ost-Sib. 1. 351, **t. 8, f. 1–5.** Walp. Ann. 7. 306.

A. palustris. Watson, Bot. Calif. 1. 70.
Alsine palustre. Kellogg, Proc. Calif. Acad. 3. 61.

A. patula. Michx. Fl. 1. 273. Persoon, 1. 504. Poir. Dict. 6. 373. DC. Prodr. 1. 405. Don, Mill. 1. 435. Torr. & Gray, Fl. 1. 180. Eat. & Wr. 134. Dietr. 2. 1559. Gray, Manual, 91.
Alsine patula. Gray, Manual, 2 ed. 58. Chapman, 49.

A. peploides. Linn. Spec. 423. See syn. (under *Honkenya*) in Ehrh. Beitr. 2. 181; Fenzl, Ledeb. Fl. Ross. 1. 358; Regel, Fl. Ost-Sib. 1. 335.—Pursh, 317. Richards. Frankl. Journ. 10. Torrey, Fl. U. S. 453. Hook. Trans. Linn. Soc. 14. 368; Fl. Bor.-Am. 1. 102. Bigel. Fl. Bost. 192. DC. Prodr. 1. 413. Spreng. Syst. 2. 395. Meyer, Pl. Lab. 91. Beck, Bot. 53. Hook. & Arn. Bot. Beechey, 122. Eat. & Wr. 133. Dietr. 2. 1565. Gray, Manual, 92.
Honkenya peploides, Ehrh. Torr. & Gray, Fl. 1. 176. Torrey, Fl. N. Y. 1. 93; Bot. Wilkes, 244. Gray, Genera, 2. 32, **t. 110**; Manual, 2 ed. 57. Seem. Bot. Herald, 26. Hook. f. in Jour. Linn. Soc. 1. 116 & 121; Arct. Pl. 288 & 322. Dickie, Jour. Linn. Soc. 3. 110. Matthew, Pl. Acad. 21.
Adenarium peploides. Raf. in Desv. Jour. Bot. 1818, 259. DC. Prodr. 3. 366.
Halianthus peploides, Fries. Lange, Pl. Grönl. 132.

Var **oblongifolia.**
A. peploides. Cham. & Schlecht. in Linn. 1. 37. Bong. Sitch. 128.
A. peploides, var. *major.* Hook. Fl. Bor.-Am. 1. 102.
Honkenya oblongifolia. Torr. & Gray, Fl. 1. 176.
A. Sitchensis. Dietr. 2. 1565.
Honkenya peploides, var. *oblongifolia.* Fenzl, Ledeb. Fl. Ross. 1. 358. Cooper, Pac. R. Rep. 12. 56. Regel, Fl. Ost-Sib. 1. 336, & syn.

A. physodes. DC. Prodr. 1. 413.
Stellaria ovalifolia. Hook. Fl. Bor.-Am. 1. 97. Hook. & Arn. Bot. Beechey, 122. Dietr. 2. 1556.
Merckia physodes. Fisch.; Cham. & Schlecht. in Linn. 1. 59. Spreng. Syst. 4. 124. Hook. Fl. Bor.-Am. 1. 103. Don, Mill. 1. 441. Torr. & Gray, Fl. 1. 176. Eat. & Wr. 318. Dietr. 2. 999. Fenzl, Ledeb. Fl. Ross. 1. 359. Seem. Bot. Herald, 26. Hook. f. Arct. Pl. 288. Regel, l. c. 1. 424. Rothr. Alask. 444.

A. Fitcheri. Nutt; Torr. & Gray, Fl. 1. 180. Eat. & Wr. 134. Dietr. 2. 1559. Engelm. & Gray, Pl. Lindh. 33. Wood, Bot. & Fl. 56.
Alsine microsperma. Fenzl, Ann. Mus. Wien. 1. 18.
Alsine Pitcheri. Wood, Cl.-Book. 260.

A. Pumilio. R. Br. in Parry's 2d Voy. Appx. 391. Hook. Fl. Bor.-Am. 1. 100. Referred to *A. arctica* by Torr. & Gray, Fl. 1. 181.

A. pungens. Nutt.; Torr. & Gray, Fl. 1. 179, not Clem. Eat. & Wr. 133. Dietr. 2. 1559. Anderson, Cat. 118. Watson, King's Rep. 5. 40. Coulter, Hayd. Rep. 1872, 762.

? *A. juniperina.* James, Cat. 182.

A. saxosa. Gray, Pl. Wright. 2. 18. Walp. Ann. 4. 258.

A. SERPYLLIFOLIA, Linn. Michx. Fl. 1. 274. Pursh, 317. Elliott, 1. 518. Torrey, Fl. U. S. 454; Fl. N. Y. 1. 94. Bigel. Fl. Bost. 192. Hook. Jour. Bot. 1. 196. Beck, Bot. 52. Darling. Fl. Cestr. 276. Torr. & Gray, Fl. 1. 182. Eat. & Wr. 132. Chapman, 49. Hook. f. Arct. Pl. 287. Gray, Manual, 91.

A. squarrosa. Michx. Fl. 1. 273. Poir. Dict. 6. 372. Pursh, 316. Elliott, 1. 520. Torrey, Fl. U. S. 454; Fl. N. Y. 1. 95, **t. 14.** DC. Prodr. 1. 403. Spreng. Syst. 2. 403. Don, Mill. 1. 433. Torr. & Gray, Fl. 1. 179. Eat. & Wr. 132. Dietr. 2. 1558. Gray, Manual, 91.

A. Caroliniana. Walter, 141. Poir. Dict. 6. 378.

A. imbricata. Raf. in Desv. Jour. Bot. 1. 229. Poir. Suppl. 5. 8.

A. Rafinesquiana. Ser. in DC. Prodr. 1. 409. Don, Mill. 1. 437. Dietr. 2. 1561.

Alsine squarrosa. Fenzl, Ann. Mus. Wien. 1. 18. Gray, Genera, 2. 34, **t. 111.** Chapman, 49.

A. stricta. See syn. (under *Alsine*) in Fenzl, Ledeb. Fl. Ross. 1. 357; Regel, Fl. Ost-Sib. 1. 338 & 349.

Spergula stricta. Swartz, Act. Holm. (1790) 20. 229; Schrad. Jour. 2. 253.

A. uliginosa. Schleich; DC. Fl. Fr., & Prodr. 1. 407. Hook. f. Arct. Pl. 287 & 322. Gray, Proc. Phil. Acad. 1863, 58.

Alsine stricta, Wahl. Lange, Pl. Grönl. 132.

Arenaria Rossii. R. Br. in Frankl. Journ. 10, & Parry's 1st Voy. 272 (Regensb. Flora, 7[1], Beil. 81). Spreng. Syst. 4. 182. Hook. Fl. Bor.-Am. 1. 100. Don, Mill. 1. 434. Torr. & Gray, Fl. 1. 181. Eat. & Wr. 132. Dietr. 2. 1559. Seem. Bot. Herald, 54. Hook. f. Jour. Linn. Soc. 1. 116; Arct. Pl. 287 & 322. Dickie, Jour. Linn. Soc. 3. 110. Pl. Bourgeau, 255. Porter, Hayd. Rep. 1870, 473; Fl. Col. 14. Rothr. Pl. Wheel. 35.

A. elegans. Cham. & Schlecht. in Linn. 1. 57. Spreng. Syst. 4. 181.

Alsine Rossii. Fenzl, Ann. Mus. Wien. 1. 18; Ledeb. Fl. Ross. 1. 356. Regel, Fl. Ost-Sib. 1. 338 & 353.

A. tenella. Nutt.; Torr. & Gray, Fl. 1. 179. Eat. & Wr. 133. Dietr. 2. 1559. Cooper, Pac. R. Rep. 12. 56. Boland. Cat. 6. Gray, Proc. Am. Acad. 8. 378.

A. tenuifolia, var. *Americana.* Fenzl, Ann. Mus. Wien. 1. 18.

Alsine tenella. Torrey, Mex. Bound. 36; Bot. Wilkes, 243.

A. verna. Linn. Mant. 1. 72. See syn. in DC. Prodr. 1. 405; Fenzl, Ledeb. Fl. Ross. 1. 347, & Regel, Fl. Ost-Sib. 1. 337, under *Alsine;* Hook. f. Arct. Pl. 287 & 322. — Hook. Fl. Bor.-Am. 1. 99. Torr. & Gray, Fl. 1. 181. Porter, Hayd. Rep. 1870, 473. Watson, King's Rep. 5. 41 & 417. Coulter, Hayd. Rep. 1872, 762.

A. juniperina. Pursh, 319, not Sm. Meyer, Pl. Lab. 92. Hook. Fl. Bor.-Am. 1. 98. Torr. & Gray, Fl. 1. 179 & 674. Eat. & Wr. 132.

Alsine Mexicana. Bartl. in Presl, Rel. Haenk. 2. 14.

Var. **hirta.** Watson, King's Rep. 5. 41. Porter, Fl. Col. 14. Rothr. Pl. Wheel. 35.

A. hirta. Wormsk.; Hornem. Fl. Dan. 10, **t. 1646,** excl. syn. DC. Prodr. 1. 405. Spreng. Syst. 2. 399. Cham. & Schlecht. in Linn. 1. 56. Hook. Fl. Bor.-

Am. 1. 99. Don, Mill. 1. 434. Torr. & Gray, Fl. 1. 181. Hook. & Arn. Bot. Beechey, 122. Eat. & Wr. 133. Seem. Bot. Herald, 26.

A. propinqua. Richards. Frankl. Journ. 10. Hook. Fl. Bor.-Am. 1. 99. Torr. & Gray, Fl. 1. 181. Eat. & Wr. 133. Dietr. 2. 1561. Pl. Bourgeau, 255.

Alsine verna, var. *hirta.* Fenzl, l. c.

Alsine rubella, var. *hirta.* Lange, Pl. Groenl. 132.

Alsine propinqua. Lange, Fl. Dan. t. **2903**; Bull. Acad. Dan. 1877, 33 & 75.

Var. **rubella.** Hook. i. in Jour. Linn. Soc. 5. 82.

A. Giesekii. Hornem. Fl. Dan. 9, t. **1518.** DC. Prodr. 1. 409. Spreng. Syst. 2. 398. Don, Mill. 1. 437. Dietr. 2. 1562.

A. quadrivalvis. R. Br. in Parry's 1st Voy. 271 (Regensb. Flora, 7[1], Beil. 79). Spreng. Syst. 4. 181.

A. rubella. Hook. in Parry's 2d Voy. 391; Trans. Linn. Soc. 14, 368; Fl. Lond. n. s., t. **200**; Fl. Bor.-Am. 1. 100. Torr. & Gray, Fl. 1. 181. Eat. & Wr. 133. Dietr. 2. 1559. Seem. Bot. Herald, 55. Hook. f. in Jour. Linn. Soc. 1. 116. Dickie, same, 3. 110 & 11. 33.

A. hirta, var. *glabrata.* Cham. & Schlecht. in Linn. 1. 56.

Alsine verna, var. *glacialis.* Fenzl, l. c.

Alsine rubella, var. *Giesekii.* Lange, Pl. Grönl. 132.

Alsine verna, var. *Gerardi.* Regel, Fl. Ost-Sib. 1. 342.

A. alpina & *arctica*; biflora.
alsinoides; lanuginosa.
brevifolia; Californica.
buxifolia; lateriflora.
caespitosa; Sagina nivalis.
calycantha; Stellaria borealis.
Canadensis; Lepigonum medium.
Caroliniana; squarrosa.
diffusa; lanuginosa.
elegans; stricta.
formosa; capillaris.
Giesekii; verna.
glabra; Grœnlandica, Stellaria uniflora.
Hanckeana; lateriflora.
hirta; verna.
Hookeri; Franklinii.
imbricata; squarrosa.
juniperina; pungens, verna.
laricifolia; arctica.
lateriflora; Stellaria borealis.
A. marina; Lepigonum medium.
monticola; Benthamii.
nardifolia; capillaris.
nemorosa; lanuginosa.
obtusa; biflora.
Pennsylvanica; lateriflora.
propinqua; verna.
Purshiana; Stellaria humifusa.
quadrivalvis; verna.
Rafinesquiana; squarrosa.
Rossii; stricta.
rubella; verna.
rubra; Lepigonum rubrum.
setacea & *stricta*; Michauxii.
Sitchensis; peploides.
tenuifolia; tenella.
thymifolia; biflora, Stellaria humifusa.
uliginosa; stricta.
verna; Douglasii.

CERASTIUM alpinum. Linn. Spec. 438. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 409, and under *C. vulgatum* in part; Regel, Fl. Ost-Sib. 1. 433 & 434. — R. Br. in Ross's Voy. 142; Parry's 1st Voy. 270 (Regensb. Flora, 7[1], Beil. 77). Schrank, Pfl. Lab. 25. Richards. Frankl. Journ. 18. Hook. in Parry's 2d Voy. 390; Trans. Linn. Soc. 14. 367; Fl. Bor.-Am. 1. 104. Meyer, Pl. Lab. 94. Schlecht. in Linn. 10. 103. Torr. & Gray, Fl. 1. 188. Eat. & Wr. 188. Seller, Ann. & Mag. Nat. Hist. 1. 16. 169. Seem. Bot. Herald, 27 & 55. Durand, Pl. Kane, 189. Lange,

Pl. Grönl. 132. Hook. f. Jour. Linn. Soc. 1. 116 & 121, & 5. 82; Arct. Pl. 288 & 323. Pl. Bourgeau, 255 & 262. Dickie, Jour. Linn. Soc. 3. 110, & 11. 33.

C. lanatum, Lam. Persoon, 1. 521. Willd. Enum. 492.

C. latifolium. Greville, Mem. Soc. Wern. 3. 429, not DC.

C. vulgatum. Hook. f. Arct. Pl. 288, in part.

Var. **Behringianum**. Regel, Fl. Ost-Sib. 1. 435.

C. Behringianum. Cham. & Schlecht. in Linn. 1. 62. Spreng. Syst. 4. 183. Hook. Fl. Bor.-Am. 1. 105. Don, Mill. 1. 445. Torr. & Gray, Fl. 1. 188. Eat. & Wr. 189. Seem. Bot. Herald, 27.

C. vulgatum, var. *Behringianum*. Fenzl, Ledeb. Fl. Ross. 1. 409. Gray, Am. Jour. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 59. Rothr. Alask. 444. Watson, King's Rep. 5. 38. Coulter, Hayd. Rep. 1872, 761. Porter, Fl. Col. 13.

Var. **Fischerianum**. Torr. & Gray, Fl. 1. 188. Seem. Bot. Herald, 27. Durand, Pl. Kane, 189. Regel, Fl. Ost-Sib. 1. 438.

C. rigidum. Ledeb. in Mem. Petr. 5. 538; Icon. Fl. Ross. t. **149**. DC. Prodr. 1. 420. Cham. & Schlecht. in Linn. 1. 62. Hook. Fl. Bor.-Am. 1. 105. Torr. & Gray, Fl. 1. 189. Eat. & Wr. 189. Dietr. 2. 1591. Fenzl, Ledeb. Fl. Ross. 1. 407.

C. Fischerianum. Ser. in DC. Prodr. 1. 419. Cham. & Schlecht. in Linn. 1. 60. Hook. Fl. Bor.-Am. 1. 103. Don, Mill. 1. 445. Seem. Bot. Herald, 51.

C. alpinum. Hook. Fl. Bor.-Am. 1. 104, in part. Bong. Sitch. 128. Lessing, Linn. 9. 151. Hook. & Arn. Bot. Beechey, 122.

C. vulgatum, vars. *grandiflorum* & *macrocarpum*. Fenzl, Ledeb. Fl. Ross. 1. 409. Rothr. Alask. 444. Reg. & Til. Fl. Ajan. 75.

Var. **glabratum**. Hook. in Parry's 2d Voy. 390; Fl. Bor.-Am. 1. 104. Torr. & Gray, Fl. 1. 188. Seem. Bot. Herald, 55.

Var. (?) **uniflorum**. Durand. Pl Kane, 189.

C. arvense. Linn. Spec. 438. See syn. in DC. Prodr. 1. 419; Fenzl, Ledeb. Fl. Ross. 1. 412; Regel, Fl. Ost-Sib. 1. 427 & 444; Rohrb. in Linn. 37. 303. — Richards. Frankl. Journ. 10. Hook. Fl. Bor.-Am. 1. 104; Lond. Jour. Bot. 6. 75. Bigel. Fl. Bost. 196. Torr. & Gray, Fl. 1. 188. Eat. & Wr. 188. Torrey, Fl. N. Y. 1. 99; Bot. Wilkes, 246. Engelm. Pl. Upp. Miss. 186. Gray, Pac. R. Rep. 12. 41; Am. Jour. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 59; Manual, 94. Cooper, Pac. R. Rep. 12. 57. Chapman, 50. Hook. f. Arct. Pl. 288 & 323. Pl. Bourgeau, 255 & 262. Porter, Hayd. Rep. 1870, 473; 1871, 479; Fl. Col. 13. Watson, King's Rep. 5. 38 & 417. Coulter, Hayd. Rep. 1872, 762. Rothr. Pl. Wheel. 35.

? *C. hybridum*. Muhl. Ind. Fl. Lanc. 170.

C. Pennsylvanicum. Hornem. Hort. Hafn. 435. DC. Prodr. 1. 420. Spreng. Syst. 2. 418. Don, Mill. 1. 446.

C. elongatum. Pursh, 321. Poir. Suppl. 5. 601. Torrey, Fl. U. S. 460. DC. Prodr. 1. 417. Spreng. Syst. 2. 417. Hook. Fl. Bor.-Am. 1. 103. Don, Mill. 1. 444. Nutt. Jour. Acad. Phil. 7. 16.

C. tenuifolium. Pursh, 321. Poir. Suppl. 5. 601. Torrey, Fl. U. S. 460. DC. Prodr. 1. 417. Bigel. Fl. Bost. 196. Don, Mill. 1. 444. Darling. Fl. Cestr. 277.

C. maximum. Linn. Spec. 439. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 399; Regel, Fl. Ost-Sib. 1. 428. — Seem. Bot. Herald, 51. Hook. f. Arct. Pl. 288.

C. nutans. Raf. Prec. Decouv. 36 & Desv. Jour. Bot. 4. 269. Poir. Suppl. 5. 601. Torrey, Cat. Pl. N. Y. 44; Fl. U. S. 459; Fl. N. Y. 1. 100. DC. Prodr. 1. 420. Hook. Fl. Bor.-Am. 1. 189. Don, Mill. 1. 446. Darling. Fl. Cestr. 280. Torr. & Gray, Fl. 1. 189 & 675. Eat. & Wr. 188. Dietr. 2. 1594. Gray, Pl. Fendl. 13; Genera, 2. 40, t. **114**; Pac. R. Rep. 12. 41; Manual, 94. Parry, Pl. Minn. 609.

Engelm. Pl. Upp. Miss. 185. Chapman, 50. Watson, King's Rep. 5. 38. Coulter, Hayd. Rep. 1872, 761. Rohrb. in Linn. 37. 288.

C. longepedunculatum. Muhl. Cat. 47. Barton, Comp. Fl. Philad. 1. 215.

C. glutinosum. Nutt. Genera, 1. 291.

C. tenellum. Fenzl, Ann. Mus. Wien. 1. 18.

C. apricum. Schlecht. in Linn. 12. 208.

C. oblongifolium. Anderson, Cat. Pl. Nev. 118.

C. oblongifolium. Torrey, Fl. U. S. 460; Fl. N. Y. 1. 99. Darling. Fl. Cestr. 33. Torr. & Gray, Fl. 1. 188. Eat. & Wr. 188. Dietr. 2. 1594. Gray, Manual, 94.

C. villosum. Muhl. Cat. 46. Darling. Fl. Cestr. 2 ed. 279.

C. arvense. Pursh, 231? Richards. Frankl. Journ. 738.

? *C. bracteatum.* Raf. Prec. Decouv. 36. Poir. Suppl. 5. 601. DC. Prodr. 1. 420. Don, Mill. 1. 447. Torr. & Gray, Fl. 1. 189. Eat. & Wr. 188.

C. ——? n. sp. Torrey, Am. Jour. Sci. 4. 63.

C. pubescens. Goldie, Edinb. Phil. Jour. 4. 328. Richards. Frankl. Journ. 2 ed. 18. DC. Prodr. 1. 420. Don, Mill. 1. 447.

C. Pennsylvanicum. Hook. Fl. Bor.-Am. 1. 104.

C. pilosum. Ledeb. in Mem. Petr. 5. 539; Icon. Fl. Ross. t. 351. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 398; Regel, Fl. Ost-Sib. 1. 426 & 427.

C. stellarioides. Moç.; DC. Prodr. 1. 415. Hook. Fl. Bor.-Am. 1. 103. Don, Mill. 1. 442. Torr. & Gray, Fl. 1. 187. Eat. & Wr. 188. Dietr. 2. 1591.

C. oblongifolium. Torrey, Pac. R. Rep. 4. 70.

C. QUATERNELLUM, Fenzl. Gray, Manual, 94.

Sagina erecta, Linn. Torr. & Gray, Fl. 1. 177. Eat. & Wr. 405. Gray, Manual, 1 ed. 64.

Moenchia quaternella, Ehrh. Wood, Bot. & Fl. 56.

C. trigynum, Vill. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 396; Regel, Fl. Ost-Sib. 1. 425; Edgew. & Hook. f. Fl. Brit. Ind. 227.

Stellaria cerastioides, Linn. Hook. Trans. Linn. Soc. 14. 367. Torr. & Gray, Fl. 1. 184. Eat. & Wr. 443. Lange, Pl. Grönl. 132. Hook. f. in Jour. Linn. Soc. 5. 82; Arct. Pl. 288.

C. VISCOSUM, Linn. Hook. f. Arct. Pl. 288. Pl. Bourgeau, 255. Rhorb. in Mart. Fl. Bras. fasc. 56. 279. United with *C. vulgatum* by Edgew. & Hook. f. in Fl. Brit. Ind. 1. 228.

C. vulgatum, Linn. Herb., not Spec. Pursh, 321. Elliott, 1. 524. DC. Prodr. 1. 415. Torrey, Fl. U. S. 458; Fl. N. Y. 1. 98. Hook. Fl. Bor.-Am. 1. 103; Jour. Bot. 1. 196. Bigel. Fl. Bost. 195. Darling. Fl. Cestr. 33. Torr. & Gray, Fl. 1. 187. Eat. & Wr. 188. Gray, Pl. Wright. 2. 18; Manual, 93; Hall's Pl. Tex. 5; Proc. Am. Acad. 8. 378. Chapman, 70.

C. hirsutum. Muhl. Cat. 46. Elliott, 1. 524. Torrey, Fl. U. S. 459.

C. connatum. Beck, Bot. 55.

C. glomeratum, Thuill. Hook. f. Fl. Brit. 55, suppressing the Linnean name.

Var. **tenellum.** Grenier, Regensb. Flora, 23[1]. 266.

C. semidecandrum, not Linn. Walter, 142. Pursh, 320. Muhl. Cat. 47. Torrey, Fl. U. S. 459. Bigel. Fl. Bost. 196. Lange, Pl. Grönl. 133.

C. viscosum, var. Torr. & Gray, Fl. 1. 187.

C. vulgatum, var. (?) *semidecandrum.* Gray, Manual, 94.

C. VULGATUM, Linn. Schrank, Pfl. Lab. 25. Meyer, Pl. Lab. 94. Regel, Fl. Ost-Sib. 1. 432, vars. & syn. Rohrb. in Mart. Fl. Bras. fasc. 56. 284. Hook. f. Arct. Pl. 288 & 323, in part. Rothr. Alask. 444.

C. viscosum, Linn. Herb., not Spec. Pursh, 320. Elliott, 1. 524. Richards. Frankl. Journ. 10. DC. Prodr. 1. 416. Torrey, Fl. U. S. 458; Fl. N. Y. 1. 99. Hook. Fl. Bor.-Am. 1. 103; Jour. Bot. 1. 196. Bigel. Fl. Bost. 196. Darling. Fl. Cestr. 33. Torr. & Gray, Fl. 1. 187. Eat. & Wr. 188. Seem. Bot. Herald, 26. Chapman, 50. Gray, Manual, 94. Rothr. in Pl. Wheel. 35.

C. fulvum. Raf. Prec. Decouv. 36, & Desv. Jour. Bot. 2. 269. Poir. Suppl. 5. 601. DC. Prodr. 1. 417. Don, Mill. 1. 441. Dietr. 2. 1592.

? *C. velutinum*. Raf. in Desv. Jour. Bot. 1. 225. Poir. Suppl. 5. 601.

C. triviale, Link. Lange, Pl. Grönl. 132. Hook. f. Fl. Brit. 55, suppressing the Linnean name.

C. apricum; nutans.
arvense; oblongifolium.
Behringianum; alpinum.
bracteatum; oblongifolium.
connatum; viscosum.
elongatum; arvense.
Fischerianum; alpinum.
fulvum; vulgatum.
glomeratum; viscosum.
glutinosum; nutans.
hirsutum; viscosum.
hybridum; arvense.
lanatum & *latifolium*; alpinum.
longepedunculatum; nutans.
C. oblongifolium; pilosum.
Pennsylvanicum; arvense, oblongifolium.
pubescens: oblongifolium.
rigidum; alpinum.
semidecandrum; viscosum.
stellarioides; pilosum.
tenellum; nutans.
tenuifolium; arvense.
triviale; vulgatum.
velutinum & *viscosum*; vulgatum.
villosum; oblongifolium.
vulgatum; alpinum, viscosum.

DIANTHUS alpinus. Linn. Spec. 412. See syn. in Regel, Fl. Ost-Sib. 1. 284; Hook. f. Arct. Pl. 287 & 321.

Var. **repens.** Regel, l. c. 286.

D. repens. Willd. Spec. 2. 681. DC. Prodr. 1. 358. Cham. & Schlecht. in Linn. 1. 42. Hook. Fl. Bor.-Am. 1. 87. Don, Mill. 1. 393. Torr. & Gray, Fl. 1. 195. Hook. & Arn. Bot. Beechey, 122. Eat. & Wr. 223. Ledeb. Fl. Ross. 1. 281. Seem. Bot. Herald, 27, **t. 4.** Rothr. Alask. 444.

D. ARMERIA, Linn. Pursh, 314. Torrey, Fl. U. S. 447. Bigel. Fl. Bost. 190. Torr. & Gray, Fl. 1. 195. Eat. & Wr. 223. Gray, Manual, 88.

? *D. Caroliniana.* Walter, 140, fide Spreng. Syst. 2. 375. Poir. in Lam. Dict. 4. 517. Don, Mill. 1. 384. Torr. & Gray, Fl. 1. 195 & 676. Eat. & Wr. 223. Dietr. 2. 1543.

D. armerioides. Raf. in Desv. Jour. Bot. 2. 569.

D. PROLIFER, Linn. Wood, Bot. & Fl. 52.

DRYMARIA crassifolia. Benth. Bot. Sulph. 16. Walp. Rep. 5. 76. Gray, Pl. Wright. 2. 18; Proc. Am. Acad. 5. 154. — (Northern Mexico.)

D. polycarpoides. Gray, Pl. Fendl. 12. Walp. Ann. 2. 91.

D. effusa. Gray, Pl. Wright. 2. 19. Walp. Ann. 4. 246. Torrey, Mex. Bound. 37.

D. frankenioides. HBK. Nov. Gen. 6. 21, **t. 515.** DC. Prodr. 1. 395. Torrey, Mex. Bound. 37. Gray, Proc. Am. Acad. 5. 154. — (Northern Mexico.)

? *Spergularia rupestris.* Benth. Bot. Sulph. 17.

D. glandulosa. Bartl. in Presl, Rel. Haenk. 2. 9. Gray, Pl. Wright 2. 18. Torrey, Pac. R. Rep. 4. 70; Mex. Bound. 37.

? *D. ramosissima.* Schlecht. in Linn. 12. 206.

D. cordata. Gray, Pl. Fendl. 13, not Willd.

D. holosteoides. Benth. Bot. Sulph. 16. Walp. Rep. 5. 76. — (Lower California.)

D. nodosa. Engelm.; Gray, Pl. Fendl. 12. Walp. Ann. 2. 91. — (Northern Mexico.)

D. sperguloides. Gray, Pl. Fendl. 11; Pl. Wright. 2. 19. Walp. Ann. 2. 91. Torrey, Mex. Bound. 37.

D. tenella. Gray, Pl. Fendl. 12; Pl. Wright. 2. 19. Walp. Ann. 2. 91.

D. xerophylla. Gray, Pl. Wright. 2. 18. Walp. Ann. 4. 246. — (Northern Mexico.)

HOLOSTEUM UMBELLATUM, Linn. Gray, Manual, 93.

LEPIGONUM macrothecum. Fisch. & Mey. Ind. Sem. Petr. 3. 14. Kindberg, Syn. Lepig. 14; Monog. 16, **t. 1, f. 1.**

Arenaria macrotheca. Hornem.; Cham. & Schlecht. in Linn. 1. 53.

A. rubra, var. Cham. & Schlecht. l. c.

Spergula rubra, var. (?) *γ.* Torr. & Gray, Fl. 1. 175.

Arenaria rubra. Hook. & Arn. Bot. Beechey, 325.

Lepigonum Chilense. Fisch. & Mey. l. c.

Spergularia rubra. Torrey, Pac. R. Rep. 4. 70; Mex. Bound. 37, in part; Bot. Wilkes, 247, in part. Boland. Cat. 6.

L. medium. Fries, Nov. Fl. Suec. Mant. 3. 33. See syn. in Fenzl, Ledeb. Fl. Ross. 2. 168, and Rohrb. Mart. Fl. Bras. fasc. 56. 272, under *Spergularia.* — Kindberg, Monog. Lepig. 24, **t. 2, f. 11,** with syn.

Arenaria rubra, var. *β.* Michx. Fl. 1. 274. Torrey, Fl. U. S. 456.

Arenaria media. Persoon, 1. 504. Hook. Fl. Antarct. 2. 259.

Arenaria Canadensis. Persoon, 1. 504. Pursh, 319. Poir. Suppl. 5. 2. Elliott, 1. 519. DC. Prodr. 1. 401. Spreng. Syst. 2. 400. Beck, Bot. 52. Dietr. 2. 1598.

Arenaria marina. Bigel. Fl. Bost. 191.

Spergularia Canadensis. Don, Mill. 1. 426.

Spergula rubra, var. (?) *β.* Torr. & Gray, Fl. 1. 175. Torrey, Fl. N. Y. 1. 107.

Spergularia rubra, var. *marina.* Gray, Manual, 1 ed. 64. Matthew, Pl. Acad. 21.

Lepigonum leiospermum. Kindberg, l. c. 23, **t. 2, f. 10.**

Spergularia media, Presl. Gray, Manual, 95. Watson, King's Rep. 5. 42.

? *Spergularia media*, var. Gray, Proc. Am. Acad. 8. 378.

Var. **macrocarpa.**

Spergularia media, var. *macrocarpa.* Gray, Manual, 95, excl. syn.

L. rubrum. Fries, Fl. Hall. 76. See syn. in Fenzl, Ledeb. Fl. Ross. 2. 167, under *Spergularia.* — Kindberg, Monog. Lepig. 40, **t. 3, f. 29,** with syn.

Arenaria rubra. Linn. Spec. 423, excl. var. Persoon, 1. 504. Bigel. Fl. Bost. 190. Torrey, Fl. U. S. 456, excl. var. Hook. Fl. Bor.-Am. 1. 98. Beck, Bot. 52. Hook. f. Jour. Linn. Soc. 1. 116.

Spergularia rubra. Presl, Rel. Haenk. 2. 9. Eat. & Wr. 439. Gray, Genera, 2. 28, **t. 108;** Pl. Wright. 2. 19; Manual, 1 ed. 64, excl. var.; Proc. Am. Acad. 8. 378. Cooper, Pac. R. Rep. 12. 56. Chapman, 48. Torrey, Bot. Wilkes, 247, in part.

Spergula rubra. Torr. & Gray, Fl. 1. 175, excl. vars. Torrey, Fl. N. Y. 1. 106, excl. var. Dietr. 2. 1598. This name is maintained by Edgw. & Hook. in Fl. Brit. Ind. 1. 244.

Spergularia rubra, var. *campestris.* Gray, Manual, 95.

Spergularia campestris, Aschers. Rohrb. in Mart. Fl. Bras. fasc. 56. 267.

L. salinum. Fries, Nov. Fl. Suec. Mant. 3. 34. Hook. f. Arct. Pl. 288 & 323. Kindberg, Monog. Lepig. 36, **t. 3, f. 27,** with syn.

Spergularia salina, Presl. Gray, Manual, 95.

Arenaria marina, Roth. Hornem. Fl. Dan. 13, **t. 2231.**

? *Spergularia rubra.* Torrey, Mex. Bound. 37, in part.

LŒFLINGIA squarrosa. Nutt.; Torr. & Gray, Fl. 1. 174 & 674. Eat. & Wr. 304. Walp. Rep. 1. 263. Gray, Pl. Wright. 1. 13; Genera, 2. 24, **t. 106.**

L. Texana. Hook. Icon. 3. 275, **t. 285.**

LYCHNIS affinis. Vahl, Fr. Mant. 3. 36. See syn. in Regel, Fl. Ost-Sib. 1. 319; Rohrb. in Linn. 36. 216, under *Melandryum involucratum.* Referred by Hook. f. to *L. apetala* in Arct. Pl. 321.

L. triflora. Hornem. Fl. Dan. 13, **t. 2173,** not R. Br.

Melandryum affine. Vahl; Liebm. Fl. Dan. 14. 5.

Wahlbergella affinis, Fries. Lange, Pl. Grönl. 133.

Melandryum involucratum, var. *affine.* Rohrb. l. c. 217. Watson, King's Rep. 5. 431.

L. alpina. Linn. Spec. 436. European. — Pursh, 321. DC. Prodr. 1. 387. Spreng. Syst. 2. 422. Hook. Fl. Bor.-Am. 1. 91. Meyer, Fl. Lab. 90. Torr. & Gray, Fl. 1. 194. Eat. & Wr. 308. Seller, Ann. & Mag. Nat. Hist. 1. 16. 169. Durand, Pl. Kane, 189. Hook. f. Arct. Pl. 289; Jour. Linn. Soc. 5. 82.

Viscaria alpina. Don, Mill. 1. 415. Lange, Pl. Grönl. 133.

L. apetala. Linn. Spec. 437. See syn. in Hook. f. Arct. Pl. 287 & 321; Regel, Fl. Ost-Sib. 1. 322 & 325; Trautv. in Trud. Petr. 1. 61; and under *Melandryum*, Fenzl, Ledeb. Fl. Ross. 1. 326; Trautv. in Pl. Middend. 53; Rohrb. in Linn. 36. 217. — R. Br. in Ross's Voy. 142; Parry's 1st Voy. 170. Richards. Frankl. Journ. 10. Hook. in Parry's 2d Voy. 389; Trans. Linn. Soc. 14. 365; Fl. Bor.-Am. 1. 91; Fl. Antarct. 1. 246. DC. Prodr. 1. 386. Cham. & Schlecht. in Linn. 1. 42. Torr. & Gray, Fl. 1. 194. Hook. & Arn. Bot. Beechey, 122. Eat. & Wr. 308. Seem. Bot. Herald, 27, 51 & 55. Durand, Pl. Kane, 189. Hook. f. in Jour. Linn. Soc. 1. 116 & 121, & 5. 82. Dickie, same, 3. 110 & 11. 33. Edgew. & Hook. f. Fl. Brit. Ind. 222.

L. frigida. Schrank, Pfl. Lab. 25.

Agrostemma apetala. Don, Mill. 1. 416.

Wahlbergella apetala, Fries. Lange, Pl. Grönl. 133.

Melandryum apetalum, Fenzl. Rothr. Alask. 444.

Var. **glabra.** Regel, Fl. Ost-Sib. 1. 327.

L. apetala. Pl. Bourgeau, 255.

L. Californica. Watson, Proc. Am. Acad. 12. 248.

Silene —— ? Brew. & Wats. Bot. Calif. 1. 66.

L. DIOICA, Linn. Greville, Mem. Soc. Wern. 3. 429. Hook. Trans. Linn. Soc. 14. 366. Hook. f. Arct. Pl. 287 & 321.

L. diurna, Linn. Wood, Bot. & Fl. 54.

L. Drummondii. Watson, King's Rep. 5. 37 & 432; Proc. Am. Acad. 12. 248. Porter, Hayd. Rep. 1871, 479; Fl. Col. 12. Coulter, Hayd. Rep. 1872, 761. Rothr. Pl. Wheel. 35.

Silene Drummondii. Hook. Fl. Bor.-Am. 1. 89; Lond. Journ. Bot. 6. 75. Don, Mill. 1. 405. Torr. & Gray, Fl. 1. 191, in part. Eat. & Wr. 427. Dietr. 2. 1573. Walp. Rep. 1. 278. Torrey, Frem. Rep. 87; Pac. R. Rep. 4. 69, in part. Engelm. Pl. Upp. Miss. 185. Newberry, Pac. R. Rep. 6. 67 ? Gray, Ives' Rep. 7; Am.

Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 58. Pl. Bourgeau, 255. Rohrb. Mon. Silene, 183.

? *Silene Scouleri*, var. (?). Gray, Pl. Fendl. 13.

Elisanthe Drummondii. Ruprecht, Fl. Cauc. 1. 200.

L. apetala. Gray, Am. Journ. Sci. 2. 33. 405, in part.

L. apetala, var. *pauciflora*. Porter, Hayd. Rep. 1870, 473.

L. elata. Watson, Proc. Am. Acad. 12. 249.

Silene Scouleri. Pl. Bourgeau, 255.

L. GITHAGO, Lam. Torr. & Gray, Fl. 1. 194. Torrey, Fl. N. Y. 1. 102. Gray, Manual, 90.

Agrostemma Githago, Linn. Pursh, 321. Barton, Comp. Fl. Phil. 1. 216. Torrey, Fl. U. S. 461. Bigel. Fl. Bost. 197. Darling. Fl. Cestr. 281. Eat. & Wr. 117. Gray, Manual, 2 ed. 57. Chapman, 52.

L. Kingii. Watson, Proc. Am. Acad. 12. 247.

L. Ajanensis ? Watson, King's Rep. 5. 37.

L. montana. Watson, Proc. Am. Acad. 12. 247.

L. apetala. Gray, Am. Journ. Sci. 2. 33. 405, in part; Proc. Acad. Philad. 1863, 58. Watson, King's Rep. 5. 36. Porter, Fl. Col. 12. Rothr. Pl. Wheel. 35.

L. nuda. Watson, King's Rep. 5. 37; Proc. Am. Acad. 12. 248.

L. Parryi. Watson, Proc. Am. Acad. 12. 248.

L. triflora. R. Br. in Ross's Voy. 142. Dietr. 2. 1596. Regel, Fl. Ost-Sib. 1. 319. Watson, l. c. 247. Referred to *L. apetala* by Hook. f. in Arct. Pl. 321.

Agrostemma triflora. Don, Mill. 1. 417.

Melandryum triflorum. Liebm. Fl. Dan. 14, **t. 2356**. Reg. & Til. Fl. Ajan. 6, excl. syn. & var. Rohrb. in Linn. 36. 231. Watson, King's Rep. 5. 431.

Wahlbergella triflora. Lange, Pl. Groenl. 133.

L. apetala, var. *pauciflora*. Durand, Pl. Kane, 189.

POLYCARPON depressum. Nutt.; Torr. & Gray, Fl. 1. 174, not Rohrb. in Mart. Fl. Bras. fasc. 56. 257. Eat. & Wr. 365. Walp. Rep. 1. 263.

P. TETRAPHYLLUM, Linn. f. Elliott, 1. 182. Torr. & Gray, Fl. 1. 174. Eat. & Wr. 365. Chapman, 48. Wood, Bot. & Fl. 57. Rohrb. l. c. 256, & syn.

SAGINA apetala. Linn. Mant. 2. 559. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 338; Hook. f. Fl. Brit. 61. Referred to *S. procumbens* by Benth. in Brit. Fl. 120. —Muhl. Cat. 18. Torrey, Fl. U. S. 195; Fl. N. Y. 1. 94. Torr. & Gray, Fl. 1. 177. Eat. & Wr. 405. Gray, Manual, 94.

S. decumbens. Torr. & Gray, Fl. 1. 177. C. A. Meyer, Ind. Sem. Petr. 8. 70 (Linn. Litt.-Ber. 1841, 173). Gray, Hall's Pl. Tex. 5.

Spergula nodosa. Walter, 142.

Spergula decumbens. Elliott, 1. 523.

Spergula saginoides. Michx. Fl. 1. 276, not Linn. Pursh, 320. Torrey, Fl. U. S. 457.

Sagina procumbens. Pursh, 119. Elliott, 1. 221. Hook. Jour. Bot. 1. 195.

Spergula subulata. Hook. Fl. Bor.-Am. 1. 93, not Sw. Eat. & Wr. 439.

Sagina Elliottii. Fenzl, fide Gray, Manual, 2 ed. 61. Chapman, 48. Wood, Cl.-Book, 261.

Sagina subulata. Torr. & Gray, Fl. 1. 178, not Wimm. A. H. Smith, Proc. Acad. Philad. 1867, 18. Gray, Manual, 95, with var. **Smithii**.

S. Linnæi. Presl, Rel. Haenk. 2. 14. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 330;

Regel, Fl. Ost-Sib. 1. 424. — Hook. f. Fl. Brit. 61. Watson, King's Rep. 5. 41. Porter, Hayd. Rep. 1871, 479; Fl. Col. 14. Coulter, Hayd. Rep. 1872, 762. Torrey, Bot. Wilkes, 243? Rothr. Pl. Wheel. 35.

Spergula saginoides. Linn. Spec. 441. DC. Prodr. 1. 394. Cham. & Schlecht. in Linn. 1. 46. Hook. Fl. Bor.-Am. 1. 93. Bong. Sitch. 128. Don, Mill. 1. 424. Eat. & Wr. 439. Dietr. 2. 1597.

Sagina saxatilis, Wimm. Lange, Pl. Grönl. 133. Hook. f. Fl. Brit. 61.

S. nivalis. Lindbl. Bot. Not. 66. See syn. in Babington, Seem. Jour. Bot. 2. 340. — Hook. f. Arct. Pl. 287 & 321. Watson, King's Rep. 5. 42.

Arenaria cæspitosa. Vahl in Hornem. Fl. Dan. 13, **t. 2289.**

Sagina intermedia. Fenzl, Ledeb. Fl. Ross. 1. 339.

Sagina cæspitosa. Lange, Pl. Grönl. 133.

S. nodosa. E. Meyer, Elench. Pl. Boruss. 29. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 340. — Torr. & Gray, Fl. 1. 177. Lange, Pl. Grönl. 133. Hook. f. Arct. Pl. 287. Gray, Manual, 95.

Spergula nodosa, Linn. Richards. Frankl. Journ. 10. Hook. Fl. Bor.-Am. 1. 93. Eat. & Wr. 439.

S. occidentalis. Watson, Proc. Am. Acad. 10. 344.

Sagina procumbens. Boland. Cat. 6. Torrey, Bot. Wilkes, 242?

Sagina Linnæi. Gray, Proc. Am. Acad. 8. 378.

S. procumbens. Linn. Spec. 128. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 338; Regel, Fl. Ost-Sib. 1. 424. — Torrey, Fl. U. S. 195; Fl. N. Y. 1. 93. Hook. Fl. Bor.-Am. 1. 92. Bigel. Fl. Bost. 65. Torr. & Gray, Fl. 1. 177. Eat. & Wr. 405. Gray, Genera, 2. 30, **t. 109**; Manual, 94. Lange, Pl. Grönl. 133. Hook. Fl. Antarct. 1. 247.

SAPONARIA OFFICINALIS, Linn. Pursh, 314. Nutt. Genera, 1. 286. Elliott, 1. 514. Torrey, Fl. U. S. 447; Fl. N. Y. 1. 103. Bigel. Fl. Bost. 190. Darling. Fl. Cestr. 272. Torr. & Gray, Fl. 1. 195. Eat. & Wr. 411. Chapman, 52. Gray, Manual, 88.

S. VACCARIA, Linn. Torr. & Gray, Fl. 1. 195. Eat. & Wr. 411. Torrey, Fl. N. Y. 1. 103. Gray, Manual, 1 ed. 55. Watson, King's Rep. 5. 36; Pl. Wheel. 6. Porter, Hayd. Rep. 1871, 479; Fl. Col. 12. Coulter, Hayd. Rep. 1872, 761.

Vaccaria vulgaris, Host. Gray, Manual, 88.

SILENE acaulis. Linn. Spec. 2 ed. 603. See syn. in Ledeb. Fl. Ross. 1. 303; Rohrb. Monog. Silene, 143. — Pursh, 316. R. Br. in Ross's Voy. 142. Greville, Mem. Soc. Wern. 3. 429. Richards. Frankl. Journ. 10. Hook. Trans. Linn. Soc. 14. 365; Fl. Bor.-Am. 1. 87. Torrey, Ann. Lyc. N. Y. 2. 170; Frem. Rep. 87. Cham. & Schlecht. in Linn. 1. 39. Meyer, Pl. Lab. 90. Torr. & Gray, Fl. 1. 189. Hook. & Arn. Bot. Beechey, 122. Eat. & Wr. 426. Seem. Bot. Herald, 27, 51 & 56. Durand, Pl. Kane, 189. Hook. f. in Jour. Linn. Soc. 1. 116 & 121, & 5. 82; Arct. Pl. 287. Dickie, Jour. Linn. Soc. 3. 110. Gray, Am. Jour. Sci. 2. 33. 256; Proc. Acad. Philad. 1863, 58; Manual, 90. Pl. Bourgeau, 255 & 262. Rothr. Alask. 444; Pl. Wheel. 35. Rohrb. l. c. **t. 1, f. 22-24.** Porter, Hayd. Rep. 1870, 473; 1871, 479; Fl. Col. 12. Watson, King's Rep. 5. 36 & 432; Pl. Wheel. 6. Coulter, Hayd. Rep. 1872, 761.

S. antirrhina. Linn. Spec. 419. Hill, Veg. Syst. 13, **t. 58, f. 4.** Ait. Hort. Kew. 2. 97. Walter, 141. Willd. Spec. 2. 702. Poir. Dict. 7. 176. Pursh, 316. Elliott, 1. 517. DC. Prodr. 1. 376. Torrey, Fl. U. S. 451; Fl. N. Y. 1. 101; Marcy's Rep. 281; Pac. R. Rep. 4. 69; Mex. Bound. 36; Bot. Wilkes, 241. Bigel. Fl. Bost. 194. Spreng. Syst. 2. 413. Hook. Fl. Bor.-Am. 1. 89; Jour. Bot. 1. 195;

Lond. Jour. Bot. 6. 75. Don, Mill. 1. 406. Darling. Fl. Cestr. 272. Torr. & Gray, Fl. 1. 191; Pac. R. Rep. 2. 160. Eat. & Wr. 426. Dietr. 2. 1574. Engelm. & Gray, Pl. Lindh. 5. Gray, Pl. Fendl. 13; Manual, 90; Hall's Pl. Tex. 5. Parry, Pl. Minn. 609. Engelm. Pl. Upp. Miss. 185. Chapman, 52. Lesqx. Fl. Ark. 351. Pl. Bourgeau, 255. Rohrb. Mon. Sil. 173; Mart. Fl. Bras. fasc. 56. 292, **t. 66, f. 1.** Boland. Cat. 6. Watson, King's Rep. 5. 36 & 432. Porter, Hayd. Rep. 1871, 479.

Saponaria dioica. Cham. & Schlecht. in Linn. 1. 38.

Var. **linaria.** Wood, Bot. & Fl. 53.

S. Armeria, Linn. Hook. Fl. Bor.-Am. 1. 91. Torr. & Gray, Fl. 1. 194. Gray, Manual, 90. Rohrb. l. c. 149.

S. Baldwinii. Nutt. Genera, 1. 288. DC. Prodr. 1. 382. Spreng. Syst. 2. 411. Don, Mill. 1. 413. Torr. & Gray, Fl. 1. 193. Eat. & Wr. 427. Dietr. 2. 1581. Chapman, 51. Wood, Cl.-Book, 255; Bot. & Fl. 53.

S. fimbriata. Baldw.; Elliott, 1. 515, not Sims.

Melandryum Baldwinii. Rohrb. Mon. Sil. 231 & 232; Syn. Lych. in Linn. 36. 254. Watson, King's Rep. 5. 431.

S. Bridgesii. Rohrb. Ind. Sem. Berol. 1867, Appx. 2. 5 (Ann. Sci. Nat. 5. 8. 431); Mon. Sil. 204. Watson, King's Rep. 5. 432; Proc. Am. Acad. 10. 342. Brew. & Wats. Bot. Calif. 1. 66.

Elisanthe Bridgesii. Ruprecht, Fl. Cauc. 1. 200.

S. Californica. Durand, Pl. Pratten. 83. Torrey, Pac. R. Rep. 4. 69 & 7. 8; Bot. Wilkes, 242. Walp. Ann. 4. 289. Boland. Cat. 6. Brew. & Wats. l. c. 64.

S. pulchra. Torr. & Gray, Fl. 1. 675, in part.

S. Virginica. Benth. Pl. Hartw. 299.

Melandryum pulchrum. Rohrb. Mon. Sil. 232 & 234, in part.

M. Californicum. Rohrb. in Linn. 36. 252. Watson, King's Rep. 5. 431.

S. Tilingi. Regel, Act. Hort. Petrop. 1. 99; Gartenfl. 1872, 330.

S. laciniata, var. *Californica.* Gray, Proc. Bost. Soc. 7. 146. Watson, Proc. Am. Acad. 10. 341.

S. campanulata. Watson, Proc. Am. Acad. 10. 341. Brew. & Wats. l. c. 63.

S. Douglasii. Hook. Fl. Bor.-Am. 1. 88. Don, Mill. 1. 414. Torr. & Gray, Fl. 1. 190. Eat. & Wr. 427. Dietr. 2. 1566. Walp. Rep. 1. 278. Rohrb. Mon. Sil. 80. Watson, King's Rep. 5. 36 & 431; Proc. Am. Acad. 10. 341. Anderson, Cat. 118. Coulter, Hayd. Rep. 1872, 761. Torrey, Bot. Wilkes, 241. Brew. & Wats. l. c.

Cucubalus Douglasii. Eaton, Manual, 7 ed.

Var. (?) Watson, King's Rep. 5. 36. Coulter, Hayd. Rep. 1872, 761 ?

S. Gallica, Linn. Hook. & Arn. Bot. Beechey, 326. Rohrb. Mon. Sil. 96. Boland. Cat. 6. Watson, Proc. Am. Acad. 11. 113. Brew. & Wats. l. c. 63.

S. quinquevulnera, Linn. Michx. Fl. 1. 272. Elliott, 1. 515. Torr. & Gray, Fl. 1. 191 & 675. Eat. & Wr. 427. Torrey, Pac. R. Rep. 4. 69; Mex. Bound. 36. Chapman, 52. Boland. Cat. 6. Wood, Bot. & Fl. 53.

S. Hookeri. Nutt.; Torr. & Gray, Fl. 1. 193. Eat. & Wr. 427. Dietr. 2. 1578. Walp. Rep. 1. 278. Hook. f. Bot. Mag. **t. 6051.** Fl. Serres, **t. 2093.** Watson, Proc. Am. Acad. 10. 341. Brew. & Wats. l. c. 64.

S. Bolanderi. Gray, Proc. Am. Acad. 7. 330 & 8. 378. Boland. Cat. 6.

Melandryum Hookeri & *Bolanderi.* Rohrb. Mon. Sil. 232; Linn. 36. 254. Watson, King's Rep. 5. 431.

S. incompta. Gray, Proc. Am. Acad. 7. 330. Watson, King's Rep. 5. 434; Proc. Am. Acad. 10. 341. Brew. & Wats. l. c. 65.

? *S. multicaulis.* Durand, Pl. Pratten. 84.

S. Engelmanni. Rohrb. in Ind. Sem. Berol. 1867, Appx. 2. 5 (Ann. Sci. Nat. 5. 8. 381); Mon. Sil. 213; Linn. 36. 264, excl. var.

S. INFLATA, Sm. Hook. Fl. Bor.-Am. 1. 88. Torr. & Gray, Fl. 1. 190. Eat. & Wr. 427. Hook. f. Arct. Pl. 287 & 321. Gray, Manual, 89. Leggett, Torr. Bull. 2. 25.

Cucubalus Behen, Linn. Michx. Fl. 1. 271. Pursh, 315. Bigel. Fl. Bost. 183. Torrey, Fl. U. S. 449.

S. Cucubalus, Wib. Rohrb. Mon. Sil. 85.

S. laciniata. Cav. Icon. 6. 44, **t. 564.** DC. Prodr. 1. 383. Spreng. Syst. 2. 407. Don, Mill. 1. 413. Lindl. Bot. Reg. 17, **t. 1444.** Paxton, Mag. Bot. 1. 267 & **t.** Maund, Bot. Gard. 11, **t. 489.** Gray, Pl. Wright. 2. 17. Torrey, Pac. R. Rep. 4. 69. Fl. Serres, 2, **t. 7.**

S. Mexicana & *Mociniana.* DC. Prodr. 1. 379 & 382. Don, Mill. 1. 410 & 413.

Lychnis pulchra. Cham. & Schlecht. in Linn. 5. 234. Hook. & Arn. Bot. Beechey, 326. Benth. Pl. Hartw. 35.

Agrostemma pulchra. Don, Mill. 1. 417.

S. pulchra. Torr. & Gray. Fl. 1. 675, in part. Walp. Rep. 1. 278. Torrey, Mex. Bound. 36.

S. speciosa. Paxton, Mag. Bot. 10. 219 & **t.**

Melandryum pulchrum. Rohrb. Mon. Sil. 234.

M. laciniatum. Rohrb. Mon. Sil. 233; Linn. 6. 255. Watson, King's Rep. 5. 431.

Var. **Greggii.**

Silene —— ? Engelm. in Wisliz. Rep. 22.

S. Greggii. Gray, Pl. Wright. 2. 17. Durand, Pl. Pratten. 83. Walp. Ann. 4. 289. Torrey, Mex. Bound. 36.

Melandryum laciniatum, var. *Greggii.* Rohrb. Mon. Sil. 232.

M. Greggii. Rohrb. in Linn. 36. 256. Watson, King's Rep. 5. 431.

S. Lemmoni. Watson, Proc. Am. Acad. 10. 342.

S. Lyallii. Watson, l. c.

S. Menziesii. Hook. Fl. Bor.-Am. 1. 90, **t. 30**; Lond. Journ. Bot. 6. 75. Don, Mill. 1. 408. Torr. & Gray, Fl. 1. 193 & 676. Eat. & Wr. 427. Dietr. 2. 1574. Walp. Rep. 1. 278. Gray, Pl. Fendl. 13; Am. Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 58; Proc. Am. Acad. 8. 378. Rohrb. Mon. Sil. 147. Anderson, Cat. 118. Watson, King's Rep. 36 & 432. Porter, Hayd. Rep. 1871, 479; Fl. Col. 12. Coulter, Hayd. Rep. 1872, 761. Torrey, Bot. Wilkes, 242. Rothr. Pl. Wheeler, 35.

S. stellarioides. Nutt.; Torr. & Gray, Fl. 1. 193. Eat. & Wr. 427. Dietr. 2. 1576. Walp. Rep. 1. 279.

S. Dorrii. Kellogg, Trans. Calif. Acad. 3. 44, **f. 12.**

S. monantha. Watson, Proc. Am. Acad. 10. 340. Brew. & Wats. l. c. 63.

S. montana. Watson, l. c. 343. Brew. & Wats. l. c. 65.

S. multicaulis. Nutt.; Torr. & Gray, Fl. 1. 192 & 675. Eat. & Wr. 427. Dietr. 2. 1576.

S. nivea. DC. Prodr. 1. 377. Don, Mill. 1. 407. Torr. & Gray, Fl. 1. 190. Eat. & Wr. 427. Dietr. 2. 1574. Parry, Pl. Minn. 609. Rohrb. Mon. Sil. 87 & 236. Gray, Manual, 89. Watson, King's Rep. 5. 431.

S. alba. Muhl. Cat. 45.

Cucubalus niveus. Nutt. Genera, 1. 287. Torrey, Fl. U. S. 449.

S. NOCTIFLORA, Linn. Torr. & Gray, Fl. 1. 192. Torrey, Fl. N. Y. 1. 101. Gray, Manual, 90.

Melandryum noctiflorum, Fr. Rohrb. in Linn. 36. 242.

S. NOCTURNA, Linn. Pursh, 316. Torrey, Fl. U. S. 451. Bigel. Fl. Bost. 194. Torr. & Gray, Fl. 1. 191. Eat. & Wr. 426. Gray, Manual, 90. Rohrb. Mon. Sil. 100.

S. occidentalis. Watson, Proc. Am. Acad. 10. 343.

S. ovata. Pursh, 316. Poir. Suppl. 5. 156. Elliott, 1. 517. DC. Prodr. 1. 368. Spreng. Syst. 2. 414. Don, Mill. 1. 399. Torr. & Gray, Fl. 1. 190. Eat. & Wr. 427. Dietr. 2. 1566. Chapman, 51. Wood, Cl.-Book, 255; Bot. & Fl. 53. Rohrb. Mon. Sil. 222. Watson, King's Rep. 5. 432.

? *Cucubalus polypetalus.* Walter, 141.

S. Pennsylvanica. Michx. Fl. 1. 272. Poir. Dict. 7. 176; Suppl. 5. 149. Pursh, 316. Ker, Bot. Reg. 3, **t. 247.** Elliott, 1. 515. DC. Prodr. 1. 380. Torrey, Fl. U. S. 450; Fl. N. Y. 1. 101. Spreng. Syst. 2. 405. Hook. Fl. Bor.-Am. 1. 90. Don, Mill. 1. 411. Bigel. Fl. Bost. 194. Spach, Hist. Veg. 5. 179. Torr. & Gray, Fl. 1. 192. Eat. & Wr. 426. Dietr. 2. 1580. Gray, Genera, 2. 42, **t. 115**; Manual, 89. Chapman, 51. Hook. f. Arct. Pl. 287.

? *S. Caroliniana.* Walter, 142.

? *S. Virginica.* Willd. Spec. 2. 702.

S. cheiranthoides. Poir. Dict. 7. 176.

S. incarnata. Lodd. Cab. **t. 41.**

S. platypetala. Otth. in DC. Prodr. 1. 383. Don, Mill. 1. 413.

? *S. rubicunda.* Dietr. in Allg. Gartenzeit. 3. 196. Walp. Rep. 1. 279.

Melandryum Pennsylvanicum. Rohrb. Mon. Sil. 232 & 233; Linn. 36. 251. Watson, King's Rep. 5. 431.

S. regia. Sims, Bot. Mag. **t. 1724.** Poir. Suppl. 5. 155. Nutt. Genera, 1. 288. DC. Prodr. 1. 382. Spreng. Syst. 2. 411. Beck, Am. Jour. Sci. 11. 182. Don, Mill. 1. 413. Hook. Jour. Bot. 1. 195. Don, Sweet's Brit. Fl. Gard. 2 ser. **t. 313.** Spach, Hist. Veg. 5. 178. Maund, Bot. Gard. 13, **t. 609.** Torr. & Gray, Fl. 1. 193. Eat. & Wr. 427. Dietr. 2. 1581. Chapman, 51. Gray, Manual, 89.

S. Virginica, var. Michx. Fl. 1. 272.

Melandryum regium. Al. Braun, Regensb. Flora, 1843, 372. Rohrb. Mon. Sil. 234 & 235.

M. Illinoense. Rohrb. in Linn. 36. 250. Watson, King's Rep. 5. 431.

S. rotundifolia. Nutt. Genera, 1. 288. DC. Prodr. 1. 383. Spreng. Syst. 2. 406. Don, Mill. 1. 413. Torr. & Gray, Fl. 1. 192. Eat. & Wr. 427. Dietr. 2. 1582. Chapman, 51. Gray, Manual, 89.

Melandryum rotundifolium. Rohrb. Mon. Sil. 234; Linn. 36. 257. Watson, King's Rep. 5. 431.

S. Scouleri. Hook. Fl. Bor.-Am. 1. 88. Don, Mill. 1. 401. Torr. & Gray, Fl. 1. 191. Eat. & Wr. 427. Dietr. 2. 1567. Walp. Rep. 1. 278. Anderson, Cat. 118. Gray, Am. Jour. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 58. Cooper, Pac. R. Rep. 12. 57. Rohrb. Mon. Sil. 213. Watson, King's Rep. 5. 432. Porter, Fl. Col. 12. Torrey, Bot. Wilkes, 241.

Elisanthe Scouleri. Ruprecht, Fl. Cauc. 1. 200.

S. Drummondii. Gray, Proc. Am. Acad. 8. 377.

S. stellata. Ait. f. Hort. Kew. 3. 84. DC. Prodr. 1. 368. Spreng. Syst. 2. 415. Hook. Fl. Bor.-Am. 1. 88. Don, Mill. 1. 399. Darling. Fl. Cestr. 272. Torr. & Gray, Fl. 1. 190; Pac. R. Rep. 2. 126. Eat. & Wr. 426. Dietr. 2. 1566. Torrey, Fl. N. Y.

1. 100, **t. 16**. Gray, Pl. Fendl. 14; Manual, 89. Parry, Pl. Minn. 608. Engelm. Pl. Upp. Miss. 185. Chapman, 51. Rohrb. Mon. Sil. 216. Watson, King's Rep. 5. 432.

Cucubalus stellatus. Linn. Spec. 414. Hill, Veg. Syst. 13, **t. 58, f. 1**. Lam. Dict. 2. 221. Ait. Hort. Kew. 2. 92. Willd. Spec. 2. 687. Michx. Fl. 1. 271. Sims, Bot. Mag **t. 1107**. Pursh, 315. Elliott, 1. 514 Torrey, Fl. U. S. 449. Bigel. Fl. Bost. 195. Spach, Hist. Veg. 5. 174.

S. verecunda. Watson, Proc. Am. Acad. 10. 344.

S. Virginica. Linn. Spec. 419, in part. Hill, Veg. Syst. 13, **t. 58, f. 3**. Medicus, Bot. Beobacht. 1783, 167. Michx. Fl. 1. 272, in part. Poir. Dict. 7. 175. Ait. f. Hort. Kew. 3. 92. Pursh, 316. Elliott, 1. 516. DC. Prodr. 1. 379. Torrey, Fl. U. S. 450; Fl. N. Y. 1. 102. Spreng. Syst. 2. 411. Hook. Fl. Bor.-Am. 1. 90; Bot. Mag. **t. 3342** (Ann. Sci. Nat. 2. 5. 293). Don, Mill. 1. 410. Spach, Hist. Veg. 5. 191. Lindl. Fl. Med. 201. Torr. & Gray, Fl. 1. 192. Eat. & Wr. 426. Dietr. 2. 1578. Walp. Rep. 1. 278. Chapman, 51. Gray, Manual, 89.

S. Catesbæi. Walter, 141. Willd. Spec. 2. 706. Poir. Dict. 7. 183. DC. Prodr. 1. 379. Don, Mill. 1. 410.

S. coccinea. Moench, Suppl. 306.

Melandrynm Virginicum. A. Braun, Regensb. Flora, 1843, 372. Rohrb. Mon. Sil. 232 & 235; Linn. 36. 250. Watson, King's Rep. 5. 431.

S. Wrightii. Gray, Pl. Wright. 2. 17. Walp. Ann. 4. 289.

Melandrynm Wrightii. Rohrb. Mon. Sil. 235; Linn. 36. 253. Watson, King's Rep. 5. 431.

S. alba; nivea.
axillaris; Cuphæ viscosissima.
Bolanderi; Hookeri.
Caroliniana & *cheiranthoides*; Pennsylvanica.
Catesbæi & *coccinea*; Virginica.
Cucubalus; inflata.
Dorrii; Menziesii.
Drummondii; Scouleri, verecunda, Lychnis Drummondii.
Engelmanni; incompta, verecunda.
fimbriata; Baldwinii.
Greggii; laciniata.
incarnata; Pennsylvanica.
S. laciniata; Californica.
Mexicana & *Moriniana*; laciniata.
multicaulis; incompta.
Nicaeensis; verecunda.
platypetala; Pennsylvanica.
pulchra; laciniata, Californica.
quinquevulnera; Gallica.
Scouleri; Lychnis Drummondii & elata.
speciosa; laciniata.
stellarioides; Menziesii.
Tilingii; Californica.
Virginica; Californica, Pennsylvanica, regia.

SPERGULA ARVENSIS, Linn. Walter, 142. Pursh, 320. Elliott, 1. 523. Torrey, Fl. U. S. 457; Fl. N. Y. 1. 106. Hook. Fl. Bor.-Am. 1. 92; Jour. Bot. 1. 196. Bigel. Fl. Bost. 196. Torr. & Gray, Fl. 1. 174. Eat. & Wr. 439. Chapman, 48. Hook. f. Arct. Pl. 287. Rothr. Alask. 444. Gray, Manual, 96. Boland. Cat. 6. Rohrb. in Mart. Fl. Bras. fasc. 56. 263, **t. 58, f. 3**, with syn.

SPERGULARIA. See *Lepigonum*.

STELLARIA borealis. Bigel. Fl. Bost. 2 ed. 182. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 381; Regel, Fl. Ost-Sib. 1. 383 & 395. — Hook. Fl. Bor.-Am. 1. 94, excl. vars.; Lond. Jour. Bot. 6. 74. Torr. & Gray, Fl. 1. 185. Dietr. 2. 1556. Eat. & Wr. 442. Torrey, Fl. N. Y. 1. 98; Bot. Wilkes, 245. Vahl, Fl. Dan. 14, **t. 2355**. Gray, Genera, 2. 38, **t. 113, f. 6–8** (fruit); Proc. Acad. Philad. 1863, 59; Manual, 93; Proc. Am. Acad. 8. 378. Cooper, Pac. R. Rep. 12. 57. Lange, Pl. Grönl. 132.

Hook. f. Arct. Pl. 288 & 322. Pl. Bourgeau, 255. Rothr. Alask. 444. Porter, Hayd. Rep. 1870, 473; 1871, 479; Fl. Col. 13. Watson, King's Rep. 5. 38.

Spergulastrum lanceolatum. Michx. Fl. 1. 275. Poir. Dict. 7. 308. Don, Mill. 1. 448.

Micropetalon lanceolatum. Persoon, 1. 509. Pursh, 320. Spreng. Syst. 2. 416. Eat. & Wr. 319.

Arenaria or *Stellaria?* Bigel. in N. Eng. Med. Jour. 5. 334.

Stellaria lanceolata. Torrey, Fl. U. S. 453, not Poir.

Arenaria lateriflora. Darling. Florul. Cestr. 54.

S. calycantha. Bong. Sitch. 127. Torr. & Gray, Fl. 1. 186. Eat. & Wr. 443.

Arenaria calycantha. Ledeb. in Mem. Acad. Petr. 5. 354. DC. Prodr. 1. 412.

S. crassifolia. Boland. Cat. 6.

Var. **alpestris.** Gray, Manual, 93.

S. alpestris, Fries. Hook. f. Arct. Pl. 323, referring it to *S. longifolia.*

S. brachypetala. Bong. Sitch. 126 (Presl, Repert. Bot. 1. 312). Torr. & Gray, Fl. 1. 186. Eat. & Wr. 443. Dietr. 2. 1553.

S. borealis, var. *corollina.* Fenzl, Ledeb. Fl. Ross. 1. 382. Gray, Proc. Am. Acad. 8. 378.

S. longifolia. Pl. Bourgeau, 255, in part.

S. Fenzlii. Regel, Fl. Ost-Sib. 1. 399.

S. crassifolia. Ehrh. Beitr. 3. 60. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 383; Regel, Fl. Ost-Sib. 1. 383 & 394. — Gray, Manual, 93. Hook. f. Arct. Pl. 288. Rothr. Alask. 444. Watson, King's Rep. 5. 417; Pl. Wheel. 6. Porter, Hayd. Rep. 1871, 479; Fl. Col. 13.

S. borealis, var. *β.* Hook. Fl. Bor.-Am. 1. 95.

? *Sagina fontinalis.* Short & Peter, Pl. Kentucky, Suppl. in Transylv. Jour. Med. 28. 600. Torr. & Gray, Fl. 1. 177. Eat. & Wr. 405.

? *Spergula fontinalis.* Dietr. 2. 1597.

S. crispa. Cham. & Schlecht. in Linn. 1. 51. Hook. Fl. Bor.-Am. 1. 87. Don, Mill. 1. 430. Bong. Sitch. 127. Torr. & Gray, Fl. 1. 186 & 675. Eat. & Wr. 443. Dietr. 2. 1555. Fenzl, Ledeb. Fl. Ross. 1. 382. Aschers. in Flora, 43. 370. Gray, Proc. Am. Acad. 8. 378. Referred to *S. borealis* by Hook. f. in Arct. Pl.

S. borealis, var. *apetala.* Regel, Fl. Ost-Sib. 1. 396, in part.

S. borealis, var. *crispa.* Torrey, Bot. Wilkes, 245.

S. dicranoides. Fenzl, Ledeb. Fl. Ross. 1. 395. Seem. Bot. Herald, 26, **t. 3.** Hook. f. Arct. Pl. 288. Regel, Fl. Ost-Sib. 1. 385 & 423.

Cherleria dicranoides. Cham. & Schlecht. in Linn. 1. 63. Spreng. Syst. 4. 183. Don, Mill. 1. 448.

S. humifusa. Rottb. in Act. Hafn. 10. 447, **t. 4, f. 14.** See syn. in Fenzl, Ledeb. Fl. Ross. 1. 384; Regel, Fl. Ost-Sib. 1. 383 & 398. — Richards. Frankl. Journ. 17. Hook. in Parry's 2d Voy. 391; Trans. Linn. Soc. 14. 367; Fl. Bor.-Am. 1. 97. Don, Mill. 1. 439. Bong. Sitch. 127. Torr. & Gray, Fl. 1. 184. Eat. & Wr. 442. Seem. Bot. Herald, 26. Durand, Pl. Kane, 188. Lange, Pl. Grönl. 132. Hook. f. in Jour. Linn. Soc. 5. 82; Arct. Pl. 288. Rothr. Alask. 444. Gray, Manual, 93. Dickie, Jour. Linn. Soc. 11. 33.

Arenaria thymifolia. Pursh, 317. Poir. Suppl. 5. 8. Meyer, Pl. Lab. 91. Eat. & Wr. 132. Dietr. 2. 1563.

A. Purshiana. Seringe, DC. Prodr. 1. 414. Hook. Fl. Bor.-Am. 1. 102. Dietr. 2. 1563.

S. marginata. Cham. & Schlecht. in Linn. 1. 50. Spreng. Syst. 4. 180. Don, Mill. 1. 430. Dietr. 2. 1555.

S. crassifolia. Cham. & Schlecht. l. c.

S. Jamesii. Torrey, Ann. Lyc. N. Y. 2. 169; Pac. R. Rep. 4. 69; Bot. Wilkes, 245. Don, Mill. 1. 428. Torr. & Gray, Fl. 1. 183. Eat. & Wr. 443. Dietr. 2. 1553. Gray, Proc. Acad. Philad. 1863, 59. Watson, King's Rep. 5. 38; Pl. Wheel. 6. Porter, Fl. Col. 13. Rothr. Pl. Wheel. 35.

? *S. graminea.* James, Cat. 181.

S. Kingii. Watson, King's Rep. 5. 39, **t. 6.** Brew. & Wats. Bot. Calif. 1. 68.

S. litoralis. Torrey, Pac. R. Rep. 4. 69. Boland. Cat. 6. Brew. & Wats. l. c.

S. longifolia. Muhl.; Willd. Enum. 479. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 392; Koch, Fl. Germ. 103; Regel, Fl. Ost-Sib. 1. 384 & 406. — Muhl. Cat. 46. Eaton, Manual, 2 ed. 45. Poir. Suppl. 5. 243. DC. Prodr. 1. 400. Torrey, Fl. U. S. 452; Fl. N. Y. 1. 97; Bot. Wilkes, 245. Hook. Fl. Bor.-Am. 1. 94. Don, Mill. 1. 431. Bong. Sitch. 126. Bigel. Fl. Bost. 193. Darling. Fl. Cestr. 275. Torr. & Gray, Fl. 1. 185. Hook. & Arn. Bot. Beechey, 122. Dietr. 2. 1556. Gray, Genera, 2. 38, **t. 113, f. 1–5**; Am. Jour. Sci. 2. 33. 405; Manual, 92. Seem. Bot. Herald, 26 & 51. Parry, Pl. Minn. 609. Hook. f. Arct. Pl. 288 & 323. Pl. Bourgeau, 255, in part. Rothr. Alask. 444.

Spergulastrum gramineum. Michx. Fl. 1. 276. Poir. Dict. 7. 308. DC. Prodr. 1. 422. Don, Mill. 1. 448.

Micropetalon gramineum. Persoon, 1. 509. Pursh, 320. Dietr. 2. 1590.

S. graminea. Bigel. Fl. Bost. 1 ed. 110, not Linn. Richards. Frankl. Journ. 10. Spreng. Syst. 2. 394. Cham. & Schlecht. in Linn. 1. 49.

Micropetalon longifolium. Eat. & Wr. 319.

S. longipes. Goldie, Edinb. Phil. Jour. 6. 327. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 386; Regel, Fl. Ost-Sib. 1. 384 & 414; Hook. f. Arct. Pl. 288 & 323. — DC. Prodr. 1. 400. Spreng. Syst. 2. 394. Hook. Fl. Bor.-Am. 1. 95; Lond. Jour. Bot. 6. 75. Don, Mill. 1. 431. Torr. & Gray, Fl. 1. 186. Eat. & Wr. 443. Dietr. 2. 1556. Torrey, Nicol. Rep. 146; Bot. Wilkes, 245. Seem. Bot. Herald, 26, 51, 55 & 56. Engelm. Pl. Upp. Miss. 186. Hook. f. in Jour. Linn. Soc. 1. 116 & 121. & 5. 82. Dickie, same, 3. 110, & 11. 33. Newberry, Pac. R. Rep. 6. 67. Gray, Proc. Acad. Philad. 1863, 59; Manual, 92. Pl. Bourgeau, 255 & 262. Rothr. Alask. 444; Pl. Wheel. 35. Anderson, Cat. 118. Watson, King's Rep. 5. 38. Porter, Hayd. Rep. 1871, 479; Fl. Col. 13. Coulter, Hayd. Rep. 1872, 762.

S. glauca. Meyer, Pl. Lab. 93, not With. Schlecht. in Linn. 10. 103. Hook. f. in Jour. Linn. Soc. 1. 116. Lange, Pl. Grönl. 132.

S. crassifolia. Watson, King's Rep. 5. 38.

S. longifolia. Rothr. Pl. Wheel. 35.

Var. **minor.** Hook. Fl. Bor.-Am. 1. 95. Torr. & Gray, Fl. 1. 186. Durand, Pl. Kane, 188.

S. palustris. Richards. Frankl. Journ. 10.

S. stricta. Richards. Frankl. 2d Journ. 15. Hook. Fl. Bor.-Am. 1. 96. Don, Mill. 1. 429. Hook. & Arn. Bot. Beechey, 326. Dietr. 2. 1554.

? *Micropetalon gramineum.* James, Cat. 181.

S. læta. Torrey, Ann. Lyc. N. Y. 2. 169.

S. longipes, var. *a. stricta.* Regel, Fl. Ost-Sib. 1. 415.

Var. (**læta**). Torr. & Gray, Fl. 1. 185. Durand, Pl. Kane, 188. Ascherson in Regensb. Flora, 43. 370.

S. læta. Richards. Frankl. Journ. 10. Hook. in Parry's 2d Voy. 390; Fl. Bor.-Am. 1. 96. Spreng. Syst. 4. 180. Don, Mill. 1. 430. Eat. & Wr. 443. Dietr. 2. 1555.

Var. (**Edwardsii**). Torr. & Gray, Fl. 1. 185. Durand, Pl. Kane, 188.

S. Edwardsii. R. Br. in Parry's 1st Voy. 271 & 308 (Regensb. Flora, 7², Beil. 78). Richards. Frankl. Journ. 10. Hook. in Parry's 2d Voy. 390; Trans. Linn. Soc. 14. 368; Fl. Bor.-Am. 1. 96, **t. 31.** Torrey, Ann. Lyc. N. Y. 2. 170. Cham. & Schlecht. in Linn. 1. 48. Spreng. Syst. 4. 180. Don, Mill. 1. 429. Schlecht. in Linn. 10. 103. Hook. & Arn. Bot. Beechey, 122. Dietr. 2. 1554. Hornem. Fl. Dan. 13, **t. 2290.** Lange, Pl. Grönl. 132.

S. nitida. Hook. in Scoresb. Greenl. 411; Lond. Jour. Bot. 6. 74. R. Br. in Parry's 1st Voy. 271 (Regensb. Flora, 7², Beil. 79). Cham. & Schlecht. in Linn. 1. 47. Spreng. Syst. 4. 180. Don, Mill. 1. 429. Dietr. 2. 1554.

Var. **peduncularis.** Fenzl, Ledeb. Fl. Ross. 1. 387. Regel, Fl. Ost-Sib. 1. 416.

S. peduncularis. Bunge; Ledeb. Fl. Alt. 2. 387; Icon. Fl. Ross. **t. 421.**

S. macropetala. Torr. & Gray, Fl. 1. 184. Eat. & Wr. 443. Dietr. 2. 1553.

Alsine macropetala. Gray, Genera, 2. 34.

S. [illegible], Sm. Pursh, 317. Bigel. Fl. Bost. 193. Torrey, Fl. U. S. 452; Fl. N. Y. 1. 97; Mex. Bound. 37. Hook. Fl. Bor.-Am. 1. 94; Jour. Bot. 1. 196. Schlecht. in Linn. 6. 589. Bong. Sitch. 126. Darling. Fl. Cestr. 274. Torr. & Gray, Fl. 1. 183. Eat. & Wr. 442. Hook. & Arn. Bot. Beechey, 135. Seem. Bot. Herald, 51. Lange, Pl. Grönl. 132. Chapman, 50. Hook. f. Arct. Pl. 288. Regel, Fl. Ost-Sib. 1. 389. Rothr. Alask. 444. Gray, Manual, 92; Proc. Am. Acad. 8. 378. Boland. Cat. 6. Rohrb. in Mart. Fl. Bras. fasc. 56. 276, **t. 64, f. 2.**

Holosteum succulentum. Linn. Amœn. 3. 21. Hill, Veg. Syst. 14. 25, **t. 17, f. 2.** Willd. Spec. 1. 89. Poir. Suppl. 3. 56. Pursh, 90. Röm. & Schult. Syst. 2. 857. Nutt. Genera, 1. 89. DC. Prodr. 1. 393. Torrey, Fl. U. S. 159. Spreng. Syst. 1. 362. Don, Mill. 1. 424. Dietr. 1. 415.

Alsine media, Linn. Walter, 117.

S. nitens. Nutt.; Torr. & Gray, Fl. 1. 185 & 675. Eat. & Wr. 443. Dietr. 2. 1553. Torrey, Pac. R. Rep. 4. 69; Mex. Bound. 37; Bot. Wilkes, 245. Newberry, Pac. R. Rep. 6. 67. Cooper, same, 12. 57. Gray, Proc. Am. Acad. 8. 378.

S. moenchioides. Fenzl, Ann. Mus. Wien, 1. 18.

S. stricta. Hook. Fl. Bor.-Am. 1. 96, in part.

S. Nuttallii. Torr. & Gray, Fl. 1. 183. Eat. & Wr. 443. Dietr. 2. 1553. Fielding, Sert. Pl. **t. 18.** Gray, Hall's Pl. Tex. 5.

Alsine Drummondii. Fenzl, Ann. Mus. Wien, 1. 18.

Alsine Nuttallii. Gray, Genera, 2. 34.

S. prostrata. Baldw.; Elliott, 1. 518. Torr. & Gray, Fl. 1. 183. Eat. & Wr. 443. Dietr. 2. 1553. Gray, Pl. Lindh. 152; Pl. Wright. 2. 17; Hall's Pl. Tex. 5. Chapman, 50. Wood, Cl.-Book, 258; Bot. & Fl. 55.

S. pubera. Michx. Fl. 1. 273. Poir. Dict. 7. 415. Pursh, 317. Nutt. Genera, 1. 289. Elliott, 1. 517. Torrey, Fl. U. S. 452. Spreng. Syst. 2. 392. Don, Mill. 1. 428. Darling. Fl. Cestr. 274. Torr. & Gray, Fl. 1. 183. Eat. & Wr. 442. Dietr. 2. 1553. Chapman, 50. Gray, Manual, 92.

S. ruscifolia. Willd.; Schlecht. in Berl. Mag. 1826, 194. Regel, Fl. Ost-Sib. 1. 385 & 419, with syn.

S. uliginosa. Murr. Comm. Gött. 1778, 55. See syn. in Fenzl, Ledeb. Fl. Ross. 1. 393; Regel, Fl. Ost-Sib. 383 & 400. — Eat. & Wr. 442. Hook. f. Arct. Pl. 288. Gray, Manual, 92. Matthew, Pl. Acadia, 15.

S. Alsine (*uliginosa*). Muhl. Cat. 46.

S. aquatica, Poll. Cham. & Schlecht. in Linn. 1. 50. Torr. & Gray, Fl. 1. 186. Gray, Manual, 1 ed. 62.

Larbræa uliginosa. Hook. Fl. Bor.-Am. 1. 93. Hook. f. in Jour. Linn. Soc. 1. 116.

? *S. gracilis.* Richards. Frankl. Journ. 10. Spreng. Syst. 4. 180. Hook. Fl. Bor.-Am. 1. 97. Don, Mill. 1. 430. Torr. & Gray, Fl. 1. 184. Eat. & Wr. 443. Dietr. 2. 1555. Aschers. in Regensb. Flora, 43. 370. Referred to *S. umbellata* by Planchon in Hook. f. Arct. Pl. 323.

S. borealis. Darling. Fl. Cestr. 274.

S. umbellata. Turcz. Cat. Baic.; Fl. Baic.-Dahur. 1. 236. Fenzl, Ledeb. Fl. Ross. 1. 394. Hook. f. Arct. Pl. 323. Regel, Fl. Ost-Sib. 1. 383 & 399. Gray, Proc. Acad. Philad. 1863, 59. Watson, King's Rep. 5. 38. Porter, Fl. Col. 13.

S. borealis, var. γ. Hook. Fl. Bor.-Am. 1. 94.

S. uniflora. Walter, 141. Torr. & Gray, Fl. 1. 184. Eat. & Wr. 443. Chapman, 50. Wood, Cl.-Book, 258; Bot. & Fl. 55.

Arenaria glabra. Elliott, 1. 520, not Michx. Wood, Bot. & Fl. 56.

Alsine Walteri. Gray, Genera, 2. 34.

S. alpestris; borealis.
Alsine & *aquatica;* uliginosa.
biflora; Arenaria lateriflora.
borealis; crassifolia, crispa, uliginosa, umbellata.
brachypetala & *calycantha;* borealis.
cerastioides; Cerastium trigynum.
crassifolia; borealis, humifusa, longipes.
Edwardsii; longipes.
elongata; Arenaria lanuginosa.
Fenzlii; borealis.
glauca; longipes.
gracilis; uliginosa.
S. graminea; longifolia, Jamesii.
Grœnlandica & *Labradorica;* Arenaria Grœnlandica.
læta; longipes.
lanceolata; borealis.
lanuginosa; Arenaria lanuginosa.
longifolia; borealis, longipes.
marginata; humifusa.
moenchioides; nitens.
nitida; longipes.
ovalifolia; Arenaria physodes.
palustris & *peduncularis;* longipes.
stricta; longipes, nitens.

STIPULICIDA setacea. Michx. Fl. 1. 26, **t. 6.** Poir. Dict. 7. 456. Nutt. Genera, 1. 29. Elliott, 1. 51. DC. Prodr. 3. 375. Don, Mill. 3. 92. Torr. & Gray, Fl. 1. 173. Dietr. 1. 177. Eat. & Wr. 444. Gray, Genera, 2. 26, **t. 107.** Chapman, 47. Wood, Cl.-Book, 262; Bot. & Fl. 57. Young, Fl. Texas, 174.

Polycarpon stipulicidum. Persoon, 1. 111. Pursh, 190. Röm. & Schult. Syst. 2. 859. Spreng. Syst. 1. 363.

PARONYCHIEÆ.

ACHYRONYCHIA Cooperi. Gray, Proc. Am. Acad. 7. 330.

ANYCHIA dichotoma. Michx. Fl. 1. 113. Juss. Ann. Mus. Par. 2. 133. Ait. f. Hort. Kew. 1. 185. Pursh, 176. Röm. & Schult. Syst. 5. 523. Torrey, Fl. U. S. 273; Fl. N. Y. 1. 105. Spreng. Syst. 1. 822. DC. Prodr. 3. 369. Hook. Comp. Bot. Mag. 1. 46. Don, Mill. 3. 88. Torr. & Gray, Fl. 1. 172. Dietr. 1. 872. Eat. & Wr. 128. Nutt. Fl. Ark. 166. Gray, Pl. Fendl. 14; Manual, 96. Chapman, 46.

Queria Canadensis. Nutt. Genera, 1. 158. James, Long's Exped. 1. 317. Barton, Comp. Fl. Phil. 1. 74. Bigel. Fl. Bost. 105.

Queria dichotoma. Moench, Meth. 351.

Anychia Canadensis. Elliott, 1. 307. Hook. Fl. Bor.-Am. 1. 226.

Paronychia dichotoma. Fenzl; Walp. Rep. 1. 262.
Paronychia Canadensis. Wood, Cl.-Book, 262.

Var. **capillacea.** Torrey, ll. cc. Torr. & Gray, l. c. Gray, Genera, 2. 20, **t. 104.**
Queria Canadensis. Linn. Spec. 90. Hill, Veg. Syst. 26, **t. 26, f. 8.** Willd. Spec. 1. 494; Enum. 137. Orteg. Dec. **t. 15, f. 2.** Poir. Dict. 6. 33. Persoon, 1. 112. Ait. f. Hort. Kew. 1. 185.
Queria capillacea. Nutt. Genera, 1. 159. Barton, Comp. Fl. Phil. 1. 74.
A. capillacea. DC. Prodr. 3. 369. Don, Mill. 3. 88. Dietr. 1. 872. Nutt. Fl. Ark. 166. Engelm. in Am. Journ. Sci. 2. 46. 95.

PARONYCHIA argyrocoma. Nutt. Genera, 1. 160. Spreng. Syst. 1. 822. DC. Prodr. 3. 372. Don, Mill. 3. 89. Torr. & Gray, Fl. 1. 171. Dietr. 1. 872. Eat. & Wr. 343. Gray, Genera, 2. 22, **t. 105**; Manual, 96. Chapman, 46.
Anychia argyrocoma. Michx. Fl. 1. 113. Poir. Suppl. 1. 404. Pursh, 176. Röm. & Schult. Syst. 5. 523. Elliott, 1. 308, in part.
Queria argyrocoma. Eaton, Manual, 7 ed.

P. Baldwinii. Fenzl; Walp. Rep. 1. 262. Chapman, 46. Wood, Cl.-Book, 262; Bot. & Fl. 58.
Anychia Baldwinii. Torr. & Gray, Fl. 1. 172. Eat. & Wr. 128.

P. dichotoma. Nutt. Genera, 1. 159. DC. Prodr. 3. 372. Don, Mill. 3. 89. Torr. & Gray, Fl. 1. 171. Dietr. 1. 871. Nutt. Fl. Ark. 166. Engelm. & Gray, Pl. Lindh. 33. Gray, Pl. Lindh. 152; Manual, 96. Torrey, Pac. R. Rep. 4. 70. Chapman, 46.
Achyrantes dichotoma. Linn. Mant. 1. 51. Willd. Spec. 1. 1196. Poir. Suppl. 2. 11.
Illecebrum dichotomum. Pursh, 446.
Anychia argyrocoma. Elliott, 1. 308, in part.
Paronychia Virginica. Spreng. Syst. 1. 822. Dietr. 1. 872.
Plotzia dichotoma. Arn.; Lindl. Nat. Syst. 2 ed. 441.

P. Drummondii. Torr. & Gray, Fl. 1. 170. Eat. & Wr. 343. Walp. Rep. 1. 261. Engelm. & Gray, Pl. Lindh. 5. Young, Fl. Tex. 173. Gray, Hall's Pl. Tex. 5.

P. herniarioides. Nutt. Genera, 1. 160. Spreng. Syst. 1. 822. DC. Prodr. 3. 371. Don, Mill. 3. 89. Torr. & Gray, Fl. 1. 171. Dietr. 1. 872. Eat. & Wr. 343. Chapman, 46. Wood, Cl.-Book, 262; Bot. & Fl. 57.
Anychia herniarioides. Michx. Fl. 1. 113. Poir. Suppl. 1. 404. Pursh, 176. Röm. & Schult. Syst. 5. 523. Elliott, 1. 308.
A. Herniariæ. Persoon, 1. 261.

P. Jamesii. Torr. & Gray, Fl. 1. 170; Pac. R. Rep. 2. 126 & 160. Eat. & Wr. 343. Walp. Rep. 1. 262. Gray, Pl. Fendl. 14; Pl. Wright. 1. 13 & 2. 19; Proc. Acad. Philad. 1863, 58. Hook. in Lond. Jour. Bot. 6. 231. Torrey, Marcy's Rep. 281; Mex. Bound. 37. Engelm. Pl. Upp. Miss. 186. Porter, Hayd. Rep. 1870, 473; Fl. Col. 119. Rohrb. in Linn. 27. 212.
P. dichotoma. Torrey, Ann. Lyc. N. Y. 2. 290.

Var. **depressa.** Torr. & Gray, Fl. 1. 171.

P. Lindheimeri. Engelm.; Gray, Pl. Lindh. 152; Pl. Wright. 1. 13 & 2. 19. Walp. Ann. 2. 90. Torrey, Mex. Bound. 37.

P. pulvinata. Gray, Am. Jour. Sci. 2. 34. 256; Proc. Acad. Philad. 1863, 58. Watson, King's Rep. 5. 298. Porter, Fl. Col. 119.

P. sessiliflora. Nutt. Genera, 1. 160. Spreng. Syst. 1. 821. DC. Prodr. 3. 372. Hook. Fl. Bor.-Am. 1. 226, **t. 75.** Don, Mill. 3. 89, **f. 22.** Torr. & Gray, Fl. 1. 170.

Dietr. 1. 871. Eat. & Wr. 343. Gray, Pl. Fendl. 14. Engelm. Pl. Upp. Miss. 186. Torrey, Pac. R. Rep. 4. 70. Pl. Bourgeau, 255. Porter, Hayd. Rep. 1870, 473; 1871, 479.

Queria sessiliflora. Eaton, Manual, 7 ed.

P. setacea. Torr. & Gray, Fl. 1. 170. Eat. & Wr. 343. Walp. Rep. 1. 261. Engelm. & Gray, Pl. Lindh. 5. Gray, same, 152; Hall's Pl. Tex. 5.

PENTACÆNA ramosissima. Hook. & Arn.; Hook. Bot. Misc. 3. 338, with syn. Walp. Rep. 1. 261. Gay, Fl. Chili, 2. 523. Torrey, Bot. Wilkes, 247.

Læflingia ramosissima. Weinm. in Regensb. Flora, 1820, 608. Röm. & Schult. Syst. Mant. 1. 335.

Paronychia ramosissima. DC. Mem. Paronych. 12, **t. 4**; Prodr. 3. 372. Torr. & Gray, Fl. 1. 172. Eat. & Wr. 343. Torrey, Pac. R. Rep. 4. 70; Mex. Bound. 37. Cooper, Pac. R. Rep. 12. 56. Boland. Cat. 6.

Pentacæna polycnemoides. Bartl. in Presl, Rel. Haenk. 2. 5, **t. 49, f. 1.**

Acanthonychia ramosissima. Rohrb. in Mart. Fl. Bras. fasc. 56. 249, **t. 56.**

SCLERANTHUS ANNUUS, Linn. Bigel. Fl. Bost. 188. Pursh, 315. Torrey, Fl. U. S. 448; Fl. N. Y. 1. 108. Gray, Genera, 2. 16, **t. 102**; Manual, 96.

SIPHONYCHIA Americana. Torr. & Gray, Fl. 1. 173. Eat. & Wr. 420. Gray, Genera, 2. 18, **t. 103.** Chapman, 47. Wood, Cl.-Book, 263; Bot. & Fl. 58. Young, Fl. Tex. 174.

Herniaria Americana. Nutt. in Am. Jour. Sci. 5. 291, excl. syn. DC. Prodr. 3. 368. Don, Mill. 3. 87.

Paronychia Americana. Fenzl; Walp. Rep. 1. 262.

P. urceolata. Shuttlw. in Herb.

S. diffusa. Chapman, 47. Wood, Bot. & Fl. 58.

S. erecta. Chapman, 47. Wood, Bot. & Fl. 58.

S. Rugelii. Chapman, 47. Wood, Bot. & Fl. 58.

Paronychia Rugelii. Shuttlw. in Herb.

PORTULACACEÆ.

CALANDRINIA Breweri. Watson, Proc. Am. [illegible] 124. Brew. & Wats. Bot. Calif. 1. 74.

C. Menziesii, var. *macrocarpa.* Gray, Proc. Calif. Acad. 3. 102.

C. maritima. Nutt.; Torr. & Gray, Fl. 1. 197. Eat. & Wr. 164. Walp. Rep. 2. 235. Torrey, Mex. Bound. 37. Brew. & Wats. l. c. 75.

C. Menziesii. Hook.; Torr. & Gray, l. c. Hook. & Arn. Bot. Beechey, 344. Eat. & Wr. 164. Walp. l. c. Torrey, Pac. R. Rep. 4. 70 & 7. 8; Mex. Bound. 37; Bot. Wilkes, 248. Newberry, Pac. R. Rep. 6. 68. Cooper, same, 12. 57. Gray, Proc. Bost. Soc. 7. 146. Boland. Cat. 6. Watson, l. c. 113. Brew. & Wats. l. c. 74.

Talinum Menziesii. Hook. Fl. 1. 223, **t. 70.** Don, Mill. 2. 77. Dietr. 3. 23.

C. speciosa. Lindl. Bot. Reg. 19, **t. 1598.** Torr. & Gray, Fl. 1. 197. Eat. & Wr. 164. Wood, Bot. & Fl. 59.

C. elegans. Spach, Hist. Veg. 5. 232.

C. pulchella. Lilja in Linn. 17. 109.

C. Nevadensis. Gray, Proc. Am. Acad. 8. 623. Brew. & Wats. l. c. 75.

Talinum pygmæum. Watson, King's Rep. 5. 42, in part.

C. pygmæa. Gray, l. c. Porter, Fl. Col. 14. Brew. & Wats. l. c.

Talinum pygmæum. Gray, Am. Journ. Sci. 2. 33. 407 (Bull. Bot. Soc. France,

9. 679); Proc. Acad. Philad. 1863, 59; Proc. Am. Acad. 7. 332. Watson, King's Rep. 5. 42, in part. Coulter, Hayd. Rep. 1872, 762. Rothr. Pl. Wheel. 35.

CALYPTRIDIUM monandrum. Nutt.; Torr. & Gray, Fl. 1. 198. Fenzl, Ann. Mus. Wien, 2. 298. Eat. & Wr. 167. Walp. Rep. 5. 787. Gray, Ives's Rep. 8.

C. roseum. Watson, King's Rep. 5. 44, **t. 6.** Parry, Amer. Naturalist, 8. 10.

CLAYTONIA acutifolia. Willd.; Röm. & Schult. Syst. 5. 435, not Ledeb. Fl. Alt. Fenzl, Ledeb. Fl. Ross. 3. 147, with syn. Cham. in Linn. 6. 560.

C. arctica. Adams, Mem. Soc. Mosc. 5. 94. DC. Prodr. 3. 361. Cham. in Linn. 6. 559. Fenzl, Ledeb. Fl. Ross. 3. 148. Trautv. Pl. Middend. 46, with syn. Gray, Am. Jour. Sci. 2. 33. 407. Hook. f. Arct. Pl. 291 & 328, referring it with *C. sarmentosa* to *C. lanceolata*.

C. Joanneana. Röm. & Schult. Syst. 5. 434. Fenzl, Ledeb. Fl. Ross. 3. 148.

C. acutifolia. Ledeb. Fl. Alt. 1. 253; Icon. **t. 272.**

C. Caroliniana. Michx. Fl. 1. 160. Persoon, 1. 253. Poir. Suppl. 2. 295. Ait. f. Hort. Kew. 2. 53. Haw. Syn. Pl. Succ. 11. Röm. & Schult. Syst. 5. 433. Elliott, 1. 307. Spreng. Syst. 1. 791. Sweet, Brit. Fl. Gard. **t. 208.** Don, Mill. 2. 81. Spach, Hist. Veg. 5. 236. Torr. & Gray, Fl. 1. 199. Eat. & Wr. 199. Walp. Rep. 2. 237. Torrey, Fl. N. Y. 1. 110. Chapman, 44. Gray, Manual, 98. Matthew, Pl. Acadia. 20.

C. Virginica, var. *latifolia.* Solander in Ait. Hort. Kew. 1. 284? Willd. Spec. 1. 1185. Torrey, Fl. U. S. 1. 259. Eat. & Wr. 198.

C. spatulæfolia. Salisb. Parad. Lond. 2, **t. 71.** Ait. f. Hort. Kew. 2. 53. Pursh, 175. Poir. Suppl. 5. 622. Nutt. Genera, 1. 152.

C. Virginica, var. *spathulæfolia.* DC. Prodr. 3. 361. Hook. Fl. Bor.-Am. 1. 224.

C. spatulata. Eaton, Manual, 4 ed. Bigel. Fl. Bost. 2 ed. 98.

Var. **sessilifolia.** Torrey, Pac. R. Rep. 4. 70; Bot. Wilkes, 248. Watson, Pl. Wheeler, 6. Brew. & Wats. Bot. Calif. 1. 76.

C. lanceolata. Pursh, 175, **t. 3,** mostly. Poir. Suppl. 5. 622. Roem. & Schult. Syst. 5. 433. DC. Prodr. 3. 361. Spreng. Syst. 1. 791. Hook. Fl. Bor.-Am. 1. 224; Lond. Jour. Bot. 6. 229. Don, Mill. 3. 81. Torr. & Gray, Fl. 1. 199. Dietr. 1. 812. Eat. & Wr. 199. Fenzl, Ledeb. Fl. Ross. 2. 147. Gray, Ives's Rep. 7; Am. Jour. Sci. 2. 33. 406. Hook. f. Arct. Pl. 291 & 328.

? *C. alsinoides.* James, Cat. 177.

C. Caroliniana. Gray, Am. Jour. Sci. 2. 33. 407.

C. Caroliniana, var. *lanceolata.* Watson, King's Rep. 5. 42. Porter, Hayd. Rep. 1871, 479; Fl. Col. 14. Coulter, Hayd. Rep. 1872, 763.

C. Chamissonis. Esch.; Spreng. Syst. 1. 790. Cham. & Schlecht. in Linn. 6. 562. Torr. & Gray, Fl. 1. 676. Walp. Rep. 2. 237. Fenzl, Ledeb. Fl. Ross. 2. 151. Hook. in Lond. Jour. Bot. 6. 230. Cooper, Pac. R. Rep. 12. 57. Gray, Proc. Acad. Philad. 1863, 59; Proc. Am. Acad. 8. 378. Rothr. Alask. 446. Watson, King's Rep. 5. 43. Porter, Hayd. Rep. 1871, 479; Fl. Col. 15. Coulter, Hayd. Rep. 1872, 762. Torrey, Bot. Wilkes, 249.

C. stolonifera. C. A. Meyer, Mem. Soc. Mosc. 7. 139, **t. 3.** Don, Mill. 3. 82.

C. aquatica. Nutt.; Torr. & Gray, Fl. 1. 201. Eat. & Wr. 199. Walp. Rep. 2. 238. Boland. Cat. 6.

C. flagellaris. Bong. Sitch. 137 (Presl, Repert. Bot. 1. 314). Torr. & Gray, Fl. 1. 201. Eat. & Wr. 199. Walp. Rep 2. 238. Fenzl, Ledeb. Fl. Ross. 2. 149. Rothr. Alask. 446.

Var. **tenerrima.** Gray, Proc. Am. Acad. 8. 378.

C. dichotoma. Nutt.; Torr. & Gray, Fl. 1. 202. Eat. & Wr. 199. Walp. Rep. 2. 238. Gray, Pl. Fendl. 14. Cooper, Pac. R. Rep. 12. 57.

C. diffusa. Nutt.; Torr. & Gray, Fl. 1. 202. Eat. & Wr. 199. Walp. Rep. 2. 238. Gray, Proc. Am. Acad. 8. 378. Brew. & Wats. Bot. Calif. 1. 76.

C. exigua. Torr. & Gray, Fl. 1. 200. Eat. & Wr. 199. Walp. Rep. 2. 237. Gray, Pl. Fendl. 14. Boland. Cat. 6.

C. tenuifolia. Torr. & Gray, Fl. 1. 201. Hook. & Arn. Bot. Beechey, 344. Eat. & Wr. 199. Walp. Rep. 2. 238. Torrey, Pac. R. Rep. 4. 71.

C. spathulata, var. Hook. & Arn. Bot. Beechey, 344.

C. perfoliata, var. *exigua.* Torrey, Pac. R. Rep. 4. 71. Brew. & Wats. l. c.

C. linearis. Dougl.; Hook. Fl. Bor.-Am. 1. 222, **t. 71**; Lond. Journ. Bot. 6. 230 Don, Mill. 3. 82, **f. 20.** Torr. & Gray, Fl. 1. 202. Eat. & Wr. 199. Walp. Rep. 2. 238. Torrey, Pac. R. Rep. 4. 71; Bot. Wilkes, 249. Boland. Cat. 6. Coulter, Hayd. Rep. 1872, 762. Gray, Proc. Am. Acad. 8. 378. Brew. & Wats. l. c.

? *C. spathulata.* Hook. in Lond. Journ. Bot. 6. 230.

C. megarrhiza. Parry, in Herb. Gray.

C. arctica, var. (?) *megarrhiza.* Gray, Am. Journ. Sci. 2. 33. 406; Proc. Acad. Philad. 1863, 59. Walp. Ann. 7. 320. Watson, King's Rep. 5. 43. Porter, Fl. Col. 15. Rothr. Pl. Wheel. 35.

C. Nevadensis. Watson, Bot. Calif. 1. 77.

C. parvifolia. Moç.; DC. Prodr. 3. 361. Don, Mill. 3. 82. Dietr. 1. 821. Torr. & Gray, Fl. 1. 201. Eat. & Wr. 199. Walp. Rep. 2. 238. Newberry, Pac. R. Rep. 6. 68. Cooper, same, 12. 57. Boland. Cat. 6. Gray, Proc. Am. Acad. 8. 378. Torrey, Bot. Wilkes, 249.

C. filicaulis. Dougl.; Hook. Fl. Bor.-Am. 1. 222, **t. 72.** Don, Mill. 3. 82.

C. perfoliata. Donn, Ind. Hort. Cantab. 4 ed. 50. Willd. Spec. 1. 1186; Enum. 268. "Jacq. Fragm. **t. 51.**" Persoon, 1. 253. Sims, Bot. Mag. **t. 1336.** Poir. Suppl. 2. 294. Ait. f. Hort. Kew. 2. 54. DC. Cat. Monsp. 97; Prodr. 3. 360. Pursh, 176. Röm. & Schult. Syst. 5. 435. Spreng. Syst. 1. 791. Hook. Fl. Bor.-Am. 1. 225; Lond. Jour. Bot. 6. 230. Don, Mill. 3. 81. Spach, Hist. Veg. 5. 234 Fisch. & Mey. Ind. Sem. Petr. 3. 32 (Linn. Litt.-Ber. 1838, 92). Torr. & Gray, Fl 1. 200. Dietr. 1. 821. Eat. & Wr. 199. Belg. Hortic. 1, **t. 58.** Torrey, Pac. R. Rep. 4. 70 & 7. 8; Mex. Bound. 38; Bot. Wilkes, 248. Newberry, Pac. R. Rep. 6. 68. Cooper, same, 12. 57. Gray, Ives's Rep. 7; Proc. Bost. Soc. Nat. Hist. 7. 145; Boland. Cat. 6. Anderson, Cat. 118. Watson, King's Rep. 5. 43. Porter, Hayd Rep. 1871, 479. Coulter, same, 1872, 762.

C. Cubensis. Bonpl. in Ann. Mus. 7. 82, **t. 6**; Pl. Æquin. **t. 26.**

Limnia perfoliata. Haw. Succ. Syn. 12.

Var. **parviflora.** Torrey, Pac. R. Rep. 4. 71; Mex. Bound. 38. Gray, Proc. Am. Acad. 8. 378.

C. parviflora. Dougl.; Hook. Fl. Bor.-Am. 1. 225, **t. 73.** Don, Mill. 3. 81, **f. 19.** Torr. & Gray, Fl. 1. 200. Eat. & Wr. 198. Walp. Rep. 2. 237. Cooper, Pac. R. Rep. 12. 57.

C. gypsophiloides. Fisch. & Mey. Ind. Sem. Petr. 2. 8 (Hook. Comp. Bot. Mag. 2. 7; Linn. Litt.-Ber. 1837, 101; Ann. Sci. Nat. 2. 5. 187). Don, Sweet's Brit. Fl. Gard. 2 ser. **t. 375.** Torr. & Gray, Fl. 1. 200. Eat. & Wr. 199. Walp. Rep. 2. 238. Regel, Sert. Petr. **t. 34.**

Var. (**spathulata**). Torrey, Pac. R. Rep. 4. 71. Brew. & Wats. l. c.

C. spathulata. Dougl.; Hook. Fl. Bor.-Am. 1. 225, **t. 74.** Don, Mill. 3. 81.

Torr. & Gray, Fl. 1. 200. Eat. & Wr. 199. Walp. Rep. 2. 237. Gray, Pl. Fendl. 14. Cooper, Pac. R. Rep. 12. 57.

C. sarmentosa. C. A. Meyer, Mem. Soc. Mosc. 7. 137, **t. 3.** Don, Mill. 3. 81. Fenzl, Ledeb. Fl. Ross. 2. 149. Seem. Bot. Herald, 27, **t. 5.** Rothr. Alask. 446. Referred with *C. arctica* to *C. lanceolata* by Hook. f. Arct. Pl. 328.

C. Chamissoi. DC. Prodr. 3. 361. Dietr. 1. 821.

C. arctica, vars. Cham. & Esch. in Linn. 6. 559.

C. Vestiana. Fisch.; Don, Mill. 3. 82.

C. lanceolata. Hook. & Arn. Bot. Beechey, 123 & 344.

? *C. Virginica.* Hook. & Arn. l. c. 123.

C. Sibirica. Linn. Spec. 204. See syn. in Fenzl, Ledeb. Fl. Ross. 2. 149. — Sims, Bot. Mag. **t. 2243.** Sweet, Brit. Fl. Gard. **t. 16.** Röm. & Schult. Syst. 5. 435. DC. Prodr. 3. 361. Torr. & Gray, Fl. 1. 676. Gray, Am. Jour. Sci. 2. 33. 407; Proc. Am. Acad. 8. 378. Rothr. Alask. 446. Boland. Cat. 6.

C. alsinoides. Sims, Bot. Mag. **t. 1309.** Pursh, 175. Poir. Suppl. 5. 622. Röm. & Schult. Syst. 5. 434. Spreng. Syst. 1. 790. DC. Prodr. 3. 360. Hook. Fl. Bor.-Am. 1. 225; Lond. Jour. Bot. 6. 230. Bong. Sitch. 136. Cham. in Linn. 6. 559. Don, Mill. 3. 81. Spach, Hist. Veg. 5. 235. Torr. & Gray, Fl. 1. 199 & 676. Dietr. 1. 812. Eat. & Wr. 199. Walp. Rep. 2. 237. "Baxter, Brit. Bot. 4, **t. 253.**" C. A. Meyer, Ind. Sem. Petr. 11. 54. Paxton, Fl. Gard. 3. 91, **f. 296.** Torrey, Pac. R. Rep. 4. 70; Bot. Wilkes, 249. Newberry, Pac. R. Rep. 6. 67. Cooper, same, 12. 57.

Limnia Sibirica & alsinoides. Haw. Syn. Pl. Succ. 11.

C. Unalaschkensis. Fisch.; Röm. & Schult. Syst. 5. 434. DC. Prodr. 3. 361. Hook. Fl. Bor.-Am. 1. 225. Don, Mill. 3. 81. Dietr. 1. 812.

? *C. asarifolia.* Bong. Sitch. 137 (Presl, Repert. Bot. 1. 314). Torr. & Gray, Fl. 1. 200. Eat. & Wr. 198. Walp. Rep. 2. 237. Fenzl, Ledeb. Fl. Ross. 2. 150.

C. umbellata. Watson, King's Rep. 5. 43, **t. 6.**

C. Virginica. Linn. Spec. 204. Hill, Veg. Syst. 14, **t. 9, f. 1.** Lam. Dict. 2. 40; Ill. t. **144, f. 1.** Ait. Hort. Kew. 1. 284. Schkuhr, Handb. **t. 50.** Willd. Spec. 1. 1185. Michx. Fl. 1. 169. Persoon, 1. 253. Sims, Bot. Mag. **t. 941.** Haw. Syn. Pl. Succ. 11. Pursh, 175. Bigel. Fl. Bost. 104. Turpin, Dict. Sci. Nat. 9. 380, **t. 195.** Röm. & Schult. Syst. 5. 433. "Tratt. Thes. Bot. **t. 17.**" Lodd. Bot. Cab. **t. 643.** Barton, Fl. N. Am. 2. 43, **t. 51.** Elliott, 1. 306. Torrey, Fl. U. S. 259; Fl. N. Y. 1. 110; Nicol. Rep. 146. Maund, Bot. Gard. 3, **t. 138.** Spreng. Syst. 1. 791. DC. Prodr. 3. 361, in part. Hook. Fl Bor.-Am. 1. 224, in part. Sweet, Brit. Fl. Gard. 2 ser. **t. 163.** Don, Mill. 3. 81. Dietr. 1. 821. Torr. & Gray, Fl. 1. 198. Eat. & Wr. 198. Walp. Rep. 2. 237. Nees, Pl. Wied. 9. Gray, Genera, 1. 224, **t. 97**; Struct. Bot. 397, **f. 730–736**; Proc. Acad. Philad. 1863, 59; Manual, 98. Seem. Bot. Herald, 27. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 186. Chapman, 44. Rothr. Alask. 446. Traill, Canad. Fl. 84, **t. 10.**

C. grandiflora. Sweet, Brit. Fl. Gard. 2 ser. **t. 216.** Don, Mill. 3. 81. Spach, Hist. Veg. 5. 226.

C. Simsii. Sweet, l. c. under t. 216.

C. acutiflora. Sweet, Hort. Brit. 2 ed. Don, Mill. 3. 81. Spach, Hist. Veg. 5. 225, **t. 37, f. 3.**

C. acutiflora; Virginica.
acutifolia; arctica.
alsinoides; Caroliniana, Sibirica.

C. aquatica; Chamissonis.
arctica; megarrhiza, sarmentosa.
asarifolia; Sibirica.

C. Chamissoi; sarmentosa.
Cubensis; perfoliata.
filicaulis; parvifolia.
flagellaris; Chamissonis.
grandiflora; Virginica.
gypsophiloides; perfoliata.
Joanneana; arctica.
lanceolata; arctica, Caroliniana, sarmentosa.
parviflora; perfoliata.
C. perfoliata; exigua.
Simsii; Virginica.
spathulæfolia; Caroliniana.
spathulata; Caroliniana, exigua, linearis, perfoliata.
stolonifera; Chamissonis.
tenuifolia; exigua.
Unalaschkensis; Sibirica.
Vestiana; sarmentosa.
Virginica; Caroliniana.

LEWISIA brachycalyx. Engelm.; Gray, Proc. Am. Acad. 7. 400. Watson, King's Rep. 5. 45. Parry, Amer. Naturalist, 9. 201. Brew. & Wats. Bot. Calif. 1. 79.

L. rediviva. Pursh, 368. Poir. Suppl. 5. 719. Nutt. Genera, 2. 13; Jour. Acad. Philad. 7. 23, **t. 2.** Spreng. Syst. 2. 459. Hook. Bot. Misc. 1. 345, **t. 70**; Fl. Bor.-Am. 1. 223; Lond. Jour. Bot. 6. 229. Don, Mill. 3. 77. Fenzl, Ann. Mus. Wien, 2. 301. Torr. & Gray, Fl. 1. 677; Pac. R. Rep. 2. 119. Hook. & Arn. Bot. Beechey, 344, **t. 86.** Eat. & Wr. 298. Dietr. 3. 23. Walp. Rep. 5. 790. Geyer, Lond. Jour. Bot. 5. 306. Durand, Fl. Utah. 160. Torrey, Pac. R. Rep. 4. 71; Bot. Wilkes, 250. Gray, Ives's Rep. 8; Proc. Am. Acad. 7. 400. Hook. f. Bot. Mag. **t. 5395.** Boland. Cat. 7. Watson, King's Rep. 5. 44; Pl. Wheel. 6. Porter, Hayd. Rep. 1871, 479. Coulter, same, 1872, 762. Dombrain, Flor. Mag. **t. 82.**
L. alba. Kellogg, Trans. Calif. Acad. 2. 115, **f. 36.**

MONTIA fontana. Linn. Spec. 87. See syn. in DC. Prodr. 3. 362; Fenzl, Ledeb. Fl. Ross. 2. 152. — Bong. Sitch. 136. Cham. in Linn. 6. 565, **t. 7, f. 1.** Don, Mill. 3. 82. Torr. & Gray, Fl. 1. 202 & 677. Eat. & Wr. 328. Seem Bot. Herald, 28. Torrey, Pac. R. Rep. 4. 71. Hook. f. Arct. Pl. 291 & 328. Rothr. Alask. 446. Boland. Cat. 6.
M. rivularis, Gmel. Lange, Pl. Grönl. 131. Aschers. in Regensb. Flora, 43. 370.
M. lamprosperma. Cham. in Linn. 6. 565, **t. 7, f. 2.**

PORTULACA lanceolata. Engelm. in Gray, Pl. Lindh. 154. Gray, Pl. Wright. 2. 19. Walp. Ann. 2. 661. Schlecht. Bot. Zeit. 11. 741. Torrey, Mex. Bound. 38.

P. OLERACEA, Linn. Walter, 144. Pursh, 365. Bigel. Fl. Bost. 199. Nutt. Genera, 2. 6. Elliott, 1. 534. James, Cat. 182; Long's Exped. 2. 179. Torrey, Ann. Lyc. N. Y. 2. 102; Compend. 216; Fl. N. Y. 1. 109; Emory's Rep. 137 & 406; Sitgr. Rep. 156; Bot. Wilkes, 248. Hook. Fl. Bor.-Am. 1. 222. Darling. Fl. Cestr. 314. Torr. & Gray, Fl. 1. 196. Eat. & Wr. 371. Gray, Genera, 1. 228, **t. 99**; Pl. Fendl. 14; Manual, 98. Walp. Ann. 2. 261. Engelm. in Gray, Pl. Lindh. 155; Pl. Upp. Miss. 186. Seem. Bot. Herald, 270. Parry, Pl. Minn. 609. Chapman, 44. Hayden, Proc. Am. Phil. Soc. 10. 315. Watson, King's Rep. 5. 42. Porter, Fl. Col. 15. Rothr. Pl. Wheel. 35.
P. sativa. James, Long's Exped. 1. 317.
? *P. consanguinea.* Schlecht. in Linn. 24. 693; Bot. Zeit. 11. 741.

P. pilosa. Linn. Spec. 445. See syn. in Lindl. Bot. Reg. **t. 792**; DC. Prodr. 3. 354; Rohrb. in Mart. Fl. Bras. fasc. 56. 303. — Torrey, Ann. Lyc. N. Y. 2. 202; Pac. R. Rep. 4. 70; Mex. Bound. 38. Torr. & Gray, Fl. 1. 196. Eat. & Wr. 371. Engelm. in Gray, Pl. Lindh. 155. Gray, Pl. Fendl. 14; Pl. Wright. 1. 13 & 2. 20. Walp. Ann. 2. 661. Seem. Bot. Herald, 270. Griseb. Fl. Brit. W. Ind. 57. Chapman, 44. A. H. Smith, Proc. Acad. Philad. 1867, 18.

P. retusa. Engelm. in Gray, Pl. Lindh. 154. Gray, Pl. Wright. 1. 13 & 2. 19; Ives's Rep. 7. Walp. Ann. 2. 660. Schlecht. Bot. Zeit. 11. 739. Torrey, Pac. R. Rep. 4. 70.

SPRAGUEA paniculata. Kellogg, Proc. Calif. Acad. 2. 187, **f. 56.** Watson, King's Rep. 5. 44.

S. umbellata. Torrey, Pl. Frem. 4, **t. 1** (Regensb. Flora, 36. 704); Mex. Bound. 37. Durand, Pl. Pratten. 84. Torr. & Gray, Pac. R. Rep. 2. 119. Newberry, same, 6. 68. Cooper, same, 12. 51. Walp. Ann. 5. 8. Hook. Bot. Mag. **t. 5143.** Lemaire, Ill. Hort. 7, Misc. 6. Boland. Cat. 7. Anderson, Cat. 118. Watson, King's Rep. 5. 44. Porter, Hayd. Rep. 1871, 479. Coulter, same, 1872, 762. Gray, Proc. Am. Acad. 8. 378.

TALINOPSIS frutescens. Gray, Pl. Wright. 1. 14, **t. 3.** Walp. Ann. 5. 7. Torrey, Mex. Bound. 37.

TALINUM aurantiacum. Engelm. in Gray, Pl. Lindh. 153. Gray, Pl. Wright. 1. 14 & 2. 20. Walp. Ann. 2. 661 & 5. 8. Torrey, Sitgr. Rep. 175; Pac. R. Rep. 7. 8; Mex. Bound. 37.

Talinum, n. sp. Engelm. in Wisliz. Rep. 12.

T. brevifolium. Torrey, Sitgr. Rep. 156 (Regensb. Flora, 38. 361; Bonplandia, 3. 95).

T. calycinum. Engelm. in Wisliz. Rep. 4. Gray, Pl. Lindh. 154; Pl. Fendl. 14. Walp. Ann. 2. 661.

T. parviflorum. Nutt.; Torr. & Gray, Fl. 1. 197. Eat. & Wr. 448. Dietr. 3. 22. Torrey, Frem. Rep. 88; Mex. Bound. 37. Gray, Pl. Lindh. 154; Pl. Fendl. 14; Pl. Wright. 2. 20; Proc. Acad. Philad. 1863, 59. Parry, Pl. Minn. 609. Engelm. Pl. Upp. Miss. 186.

Talinum, n. sp. Nutt.; Torrey, Ann. Lyc. N. Y. 2. 202.

T. reflexum. Cav. Icon. 1, **t. 1.** See syn. in DC. Prodr. 3. 357. — Sims, Bot. Mag. **t. 1543.** Gray, Pl. Wright. 2. 20. Torrey, Mex. Bound. 37.

T. patens, var. Willd. Spec. 2. 863. Rohrb. in Mart. Fl. Bras. fasc. 56. 296.

T. spathulatum. Engelm. in Gray, Pl. Wright. 1. 14. Walp. Ann. 5. 7.

T. sarmentosum. Engelm. in Gray, Pl. Lindh. 153. Gray, Pl. Wright. 1. 14. Walp. Ann. 2. 661.

T. spinescens. Torrey, Bot. Wilkes, 250.

T. teretifolium. Pursh, 365. Nutt. Genera, 2. 6. Elliott, 1. 535. Lodd. Cab. **t. 819.** Darling. Fl. Cestr. 56, **t. 3.** Spreng. Syst. 2. 453. Torrey, Compend. 216. DC. Prodr. 3. 356. Don, Mill. 3. 76. Spach, Hist. Veg. 5. 228. Torr. & Gray, Fl. 1. 196. Eat. & Wr. 448. Dietr. 3. 23. Gray, Pl. Lindh. 154; Genera, 1. 226, **t. 98**; Proc. Acad. Philad. 1863, 59; Manual, 98. Torrey, Marcy's Rep. 281. Chapman, 44. Porter, Fl. Col. 14.

Phemeranthus teretifolius. Raf. Specch. 1. 86.

T. ciliatum. Walp. Rep. 2. 934.

TAMARISCINEÆ.

FOUQUIERA formosa. HBK. Nov. Gen. 6. 81, **t. 527.** Spreng. Syst. 2. 568. DC. Prodr. 3. 349. Engelm. Wisliz. Rep. 14. Gray, Pl. Wright. 1. 76 & 2. 63. Walp. Ann. 3. 828. Torrey, Sitgr. Rep. 165.

Philataeria horrida. Liebm. in Dansk. Vidensk. Selsk. Skrift. 5. 2. 283, & **t.**

F. spinosa. HBK. Nov. Gen. 3. 452. Engelm. Wisliz. Rep. 14. Gray, Pl. Wright. 1. 76; Pl. Thurb. 303; Proc. Am. Acad. 5. 158. Torrey, Sitgr. Rep. 165. Walp. Ann. 3. 828. Benth. & Hook. Genera, 162.

Bronnia spinosa. HBK. Nov. Gen. 6. 83, **t. 528.** DC. Prodr. 3. 350. Benth. Bot. Sulph. 16.

Cantua spinosa. Willd.; Röm. & Schult. Syst. 4. 369.

? *Idria columnaria.* Kellogg, Proc. Calif. Acad. 2. 34.

F. splendens. Engelm. Wisliz. Rep. 14 & 29. Gray, Pl. Wright. 1. 76 & 2. 63; Pl. Thurb. 301; Ives's Rep. 23. Walp. Ann. 3. 828. Torrey, Sitgr. Rep. 165; Pac. R. Rep. 5. 363 & 7. 11; Mex. Bound. 148. Watson, Pl. Wheel. 6.

F. spinosa. Torrey, Emory's Rep. 147, **t. 8.**

ELATINEÆ.

ELATINE Americana. Arnott in Edinb. Journ. Sci. 1. 430. Torr. & Gray, Fl. 1. 203. Fenzl, Denkschr. Regensb. 3. 182. Torrey, Fl. N. Y. 1. 91; Mex. Bound. 36. Gray, Genera, 1. 220, **t. 95**; Pl. Wright. 1. 12 & 2. 17; Manual, 87; Proc. Am. Acad. 8. 377. Watson, King's Rep. [illegible] Porter, Fl. Col. 15. Rothr. Pl. Wheel. 35. Brew. & Wats. Bot. Calif. 1. 80.

Peplis Americana. Pursh, 238. Poir. Suppl. 5. 773. Nutt. Genera, 1. 228. Bigel. Fl. Bost. 3 ed. 12.

Crypta minima. Nutt. in Journ. Acad. Philad. 1. 117, **t. 6, f. 1** (Litt.-Ber. zu Linnæa, 1828, 163); Genera, 2. Appx. Barton, Comp. Fl. Phil. 1. 17. Roem. & Schult. Syst. Mant. 1. 232. Torrey, Fl. U. S. 1. 32. Spreng. Syst. 1. 124. Dietr. 1. 124. Eat. & Wr. 214.

? *Leptrina autumnalis.* Raf. Journ. Phys. 1819, 96. DC. Prodr. 3. 362. Torr. & Gray, Fl. 1. 196. Fisch. & Mey. in Linn. 10. 73. Don, Mill. 3. 83. Fenzl, Ann. Mus. Wien, 2. 299.

Elatine minima. Fisch. & Mey. in Linn. 10. 73. Seubert, Mon. Elat. 41, **t. 2, f. 9** (Walp. Rep. 1. 283). Walp. Rep. 5. 83. Muell. Pl. Indig. Vict. 1. 195.

E. Clintoniana. Peck, Rep. N. Y. State Univ. 22. 52. Wood, Bot. & Fl. 51.

BERGIA Texana. Seub.; Walp. Rep. 1. 285. Benth. & Hook. Genera, 1. 163. Watson, King's Rep. 5. 15. Gray, Hall's Pl. Tex. 5.

Merimea (?) *Texana.* Hook. Icon. **t. 278.**

Elatine Texana. Torr. & Gray, Fl. 1. 678. Fenzl, Regensb. Denkschr. 3. 183. Gray, Pl. Lindh. 187; Genera, 1. 218, **t. 96**; Pl. Wright. 1. 12.

Bergella Texana. Schnizl. Icon. **t. 219, f. 1, 2 & 26.**

HYPERICACEÆ.

ASCYRUM amplexicaule. Michx. Fl. 2. 77. Persoon, 2. 81. Poir. Suppl. 1. 481. Pursh, 374. Chois. in DC. Prodr. 1. 555. Elliott, 2. 23. Spreng. Syst. 3. 351. Don, Mill. 1. 613. Hook. Jour. Bot. 1. 199. Spach, Ann. Sci. Nat. 2. 5. 368; Hist. Veg. 5. 457. Torr. & Gray, Fl. 1. 157. Eat. & Wr. 140. Dietr. 4. 1239. Chapman, 39. Wood, Cl.-Book, 247; Bot. & Fl. 49.

Hypericum tetrapetalum. Lam. Dict. 4. 153.

A. stans. Willd. Spec. 3. 1473.

A. stans, var. *β.* Chois. Prodr. Hyper. 61.

A. Crux-Andreæ. Linn. Spec. 2 ed. 1107, not 1 ed. fide Torr. & Gray, Fl. 1. 672. Hill, Veg. Syst. 12, **t. 34, f. 1,** & 15, **t. 9, f. 1.** Lam. Dict. 1. 285. Walter, 191. Ait. Hort. Kew. 3. 109. Willd. Spec. 3. 1472. Persoon, 2. 81. Pursh, 373. Chois. Prodr. Hyper. 61; DC. Prodr. 1. 555. Elliott, 2. 22. Torrey, Compend. 219. Spreng. Syst. 3. 351. Don, Mill. 1. 662. Hook. Jour. Bot. 1. 199. Spach, l. c. 368. Torr. & Gray, Fl. 1. 156. Eat. & Wr. 139. Dietr. 4. 1239. Chapman, 38. Lesqx. Fl. Ark. 350. Gray, Manual, 83; Hall's Pl. Tex. 5.

A. helianthemifolium, linifolium, oblongifolium & *spathulatum.* Spach, Ann. Sci. Nat. 2. 5. 368; Hist. Veg. 5. 460.

A. Plumieri. Bertol. Bot. Misc. 13. 19, **t. 3, f. 3** (Bot. Zeit. 14. 118), fide Gray, Am. Jour. Sci. 2. 20. 279.

Var. **angustifolium.** Nutt. Genera, 2. 16. Chois. in DC. Prodr. 1. 555. Torr. & Gray, Fl. 1. 156. Eat. & Wr. 139.

A. multicaule. Michx.; Willd. Spec. 3. 1472. Michx. Fl. 2. 77. Persoon, 2. 81. Poir. Suppl. 1. 480. Spreng. Syst. 3. 352. Don, Mill. 1. 613.

A. hypericoides. Linn. Spec. 788, in part, not of 2d ed. Ait. f. Hort. Kew. 4. 430, in part.

A. Michauxii. Spach, ll. cc.

A. hypericoides. Linn. Spec. 788, in part, & 2 ed. 1108, mostly. Chois. in DC. Prodr. 1. 555. Griseb. Fl. Brit. W. Ind. 112.

A. microsepalum. Torr. & Gray, Fl. 1. 157. Eat. & Wr. 140. Dietr. 4. 1239. Chapman, 39. Wood, Cl.-Book, 247; Bot. & Fl. 48.

Isophyllum Drummondii. Spach, Ann. Sci. Nat. 2. 5. 367; Hist. Veg. 5. 433.

A. pumilum. Michx. Fl. 2. 77. Poir. Suppl. 1. 481. Pursh, 373. Chois. in DC. Prodr. 1. 555. Elliott, 2. 21. Spreng. Syst. 3. 352. Don, Mill. 1. 612. Hook. Jour. Bot. 1. 199. Spach, ll. cc. 369 & 463. Torr. & Gray, Fl. 1. 156 & 672. Eat. & Wr. 140. Dietr. 4. 1239. Chapman, 39. Wood, Cl.-Book, 247; Bot. & Fl. 48.

A. pauciflorum. Nutt. Genera, 2. 15. Chois. l. c. 1. 555. Don, Mill. 1. 612.

A. stans. Michx. Fl. 2. 77, not Willd. Vent. Hort. Malm. **t. 90.** Poir. Suppl. 1. 481. Ait. f. Hort. Kew. 4. 430. Chois. Prodr. Hyper. 61; DC. Prodr. 1. 555. Torrey, Compend. 219; Fl. N. Y. 1. 84. Spreng. Syst. 3. 351. Don, Mill. 1. 613. Spach, ll. cc. 368 & 457. Torr. & Gray, Fl. 1. 157. Eat. & Wr. 140. Dietr. 4. 1239. Gray, Genera, 1. 212, **t. 91**; Manual, 83. Chapman, 39.

A. hypericoides. Linn. Spec. 788, syn. *Plok.* Marsh. Arbust. 14. Walter, 191. Willd. Spec. 3. 1473, in part. Pursh, 373. Elliott, 2. 22. Don, Mill. 1. 613.

A. Crux-Andreæ, var. *stans.* Persoon, 2. 81.

A. grandiflorum. Raf. Fl. Lud. 87.

? *A. simplex.* Zeyh.; Turcz. in Bull. Soc. Mosc. 31[1]. 389.

ELODES petiolata. Pursh, 379. Nutt. Genera, 2. 17. Barton, Comp. Fl. Phil. 2. 17. Elliott, 2. 34. Don, Mill. 1. 612. Torr. & Gray, Fl. 1. 168. Eat. & Wr. 232. Dietr. 4. 1237. Chapman, 42. Gray, Manual, 86. The genus, as including *Elodes,* of Adanson, and *Elodea, Elodes* & *Triadenia* of Spach, is referred to *Hypericum* by Treviranus and Benth. & Hooker.

Hypericum petiolatum. Walter, 191. Poir. Suppl. 5. 733. Eat. & Wr. 279.

Hypericum axillare. Michx. Fl. 2. 81.

Hypericum campanulatum, var. *β* ? Poir. Suppl. 3. 696.

Hypericum paludosum. Chois. Prodr. Mon. Hyper. 43; DC. Prodr. 1. 546. Hook. Jour. Bot. 1. 198.

Martia petiolata. Spreng. Syst. 3. 333.

Elodea axillaris & *floribunda.* Spach, Ann. Sci. Nat. 2. 5. 169; Hist. Veg. 5. 368.

E. tubulosa. Pursh, 379. Nutt. Genera, 2. 17. Elliott, 2. 34. Don, Mill. 1. 612. Torr. & Gray, Fl. 1. 168. Dietr. 4. 1238. Not identified.

Hypericum tubulosum. Walter, 191. Poir. Suppl. 5. 733. Chois. in DC. Prodr. 1. 546. Eat. & Wr. 280.

Elodea pauciflora. Spach, ll. cc. 169 & 367.

E. Virginica. Nutt. Genera, 2. 17. Elliott, 2. 33. Spach, ll. cc. 166 & 364. Torr. & Gray, Fl. 1. 167. Eat. & Wr. 232. Torrey, Fl. N. Y. 1. 90. Dietr. 4. 1237. Gray, Genera, 1. 216, **t. 94**; Pac. R. Rep. 12. 41; Manual, 86. Parry, Pl. Minn. 609. Chapman, 42.

Hypericum Virginicum. Linn. Spec. 2 ed. 1104. Hill, Veg. Syst. 15, **t. 4, f. 4.** Lam. Dict. 4. 162. Willd. Spec. 3. 1455. Michx. Fl. 2. 81. Persoon, 2. 89. Andr. Bot. Rep. 8, **t. 552.** Ait. f. Hort. Kew. 4. 425. Bigel. Fl. Bost. 208. Chois. in DC. Prodr. 1. 546. Torrey, Compend. 221. Hook. Jour. Bot. 1. 198. Darling. Fl. Cestr. 322. Trevir. Hyper. 8.

Hypericum campanulatum. Walter, 191. Poir. Suppl. 3. 696 & 5. 733.

H. emarginatum. Lam. Dict. 4. 154.

Triadenum purpurascens. Raf. Med. Rep. 5. 355; Desv. Journ. Bot. 2. 171.

Elodes campanulata. Pursh, 379. Don, Mill. 1. 612.

Martia campanulata. Spreng. Syst. 3. 333.

Elodea Virginica, Drummondii & Fraseri. Spach, ll. cc. 166 & 364.

HYPERICUM adpressum. Barton, Comp. Fl. Phil. 2. 15. Torr. & Gray, Fl. 1. 159. Eat. & Wr. 279. Dietr. 4. 1234. Gray, Manual, 84.

H. Bonapartæ. Barton, Fl. N. Am. 3. 95, **t. 106.**

Var. **fastigiatum.** Torr. & Gray, Fl. 1. 673.

H. fastigiatum. Elliott, 2. 31. Torr. & Gray, Fl. 1. 166. Eat. & Wr. 280. Chapman, 41.

H. anagalloides. Cham. & Schlecht. in Linn. 3. 127. Don, Mill. 1. 607. Torr. & Gray, Fl. 1. 167 & 674. Hook. & Arn. Bot. Beechey, 136. Dietr. 4. 1235. Torrey, Pac. R. Rep. 4. 68; Bot. Wilkes, 240. Boland. Cat. 6. Gray, Proc. Am. Acad. 8. 377.

? *H. mutilum.* Watson, King's Rep. 5. 46.

H. angulosum. Michx.; Willd. Spec. 3. 1454. Michx. Fl. 2. 78. Persoon, 2. 88. Poir. Suppl. 3. 696. Pursh, 378. Torrey, Compend. 220. Chois. in DC. Prodr. 1. 546. Elliott, 2. 25. Spreng. Syst. 3. 345. Don, Mill. 1. 603. Hook. Jour. Bot. 1. 168. Torr. & Gray, Fl. 1. 164 & 673. Eat. & Wr. 279. Dietr. 4. 1235. Chapman, 41. Gray, Manual, 85.

H. denticulatum. Walter, 190, not Kunth.

? *H. lævigatum.* Ait. Hort. Kew. 3. 106. Poir. Suppl. 5. 374. Torr. & Gray, Fl. 1. 161. Dietr. 4. 1235.

H. virgatum. Lam. Dict. 4. 158. Persoon, 2. 88. Chois. in DC. Prodr. 1. 547. Spreng. Syst. 3. 346. Don, Mill. 1. 604. Torr. & Gray, Fl. 1. 166. Eat. & Wr. 281.

H. hedyotifolium. Poir. Suppl. 7. 700. Chois. in DC. Prodr. 1. 547. Don, Mill. 1. 604. Torr. & Gray, Fl. 1. 166. Eat. & Wr. 281.

H. acutifolium. Elliott, 2. 26. Torr. & Gray, Fl. 1. 167. Eat. & Wr. 280.

Brathys Erythreæ, lanceolata & linoides. Spach, Ann. Sci. Nat. 2. 5. 367; Hist. Veg. 5. 452.

H. aureum. Barton, Travels, 383. Torr. & Gray, Fl. 1. 161. Dietr. 4. 1234. Chapman, 40. Wood, Cl.-Book, 249; Bot. & Fl. 49.

H. frondosum. Michx. Fl. 2. 81. Poir. Suppl. 3. 699. Pursh, 375. Muhl. Cat.

71. Chois. in DC. Prodr. 1. 544. Spreng. Syst. 3. 346. Don, Mill. 1. 601. Eat. & Wr. 279.

H. ascyroides, var. *β*. Poir. Suppl. 3. 694.

H. amœnum. Pursh, 375. Poir. Suppl. 5. 733. Nutt. Genera, 2. 10. Chois. in DC. Prodr. 1. 544. Elliott, 2. 31. Spreng. Syst. 3. 346. Don, Mill. 1. 601.

H. Rugelianum. Kunze, Ind. Sem. Lips. (Linn. 24. 176).

H. Buckleyi. M. A. Curtis, Am. Jour. Sci. 44. 80. Chapman, 39. Wood, Cl.-Book, 248; Bot. & Fl. 49.

H. Canadense. Linn. Spec. 785. Hill, Veg. Syst. 15, **t. 4, f. 5.** Ait. Hort. Kew. 3. 105. Lam. Dict. 4. 162. Willd. Spec. 3. 1455. Michx. Fl. 2. 79. Persoon, 2. 89. Pursh, 378. Bigel. Fl. Bost. 280. Chois. in DC. Prodr. 1. 550. Elliott, 2. 24. Torrey, Compend. 220; Fl. N. Y. 1. 89. Spreng. Syst. 3. 347. Hook. Fl. Bor.-Am. 1. 110. Don, Mill. 1. 608. Darling. Fl. Cestr. 324. Torr. & Gray, Fl. 1. 165. Eat. & Wr. 279. Dietr. 4. 1235. Chapman, 42. Lesqx. Fl. Ark. 350. Trevir. Hyper. 10. Gray, Manual, 86.

H. thesiifolium, pauciflorum & *Moranense*. HBK. Nov. Gen. & Spec. 5. 192 & 193, fide Chois. in DC. Prodr. 1. 50.

Brathys Canadensis. Spach, Ann. Sci. Nat. 2. 5. 367.

Var. **major.** Gray, Manual, 86.

H. cistifolium. Lam. Dict. 4. 158. Persoon, 2. 88. Chois. in DC. Prodr. 1. 547. Spreng. Syst. 3. 346. Torr. & Gray, Fl. 1. 166 & 674. Eat. & Wr. 279. Dietr. 4. 1235. Chapman, 41. Wood, Cl.-Book, 249; Bot. & Fl. 50. Trevir. Hyper. 9.

H. rosmarinifolium. Lam. Dict. 4. 159 ?, not DC. Willd. Spec. 3. 1450. Persoon, 2. 88. Elliott, 2. 29. Spreng. Syst. 3. 344. Beck, Am. Jour. Sci. 14. 115. Don, Mill. 1. 604. Hook. Jour. Bot. 1. 199. Torr. & Gray, Fl. 1. 159. Eat. & Wr. 280. Dietr. 4. 1234. Wood, Cl.-Book, 248; Bot. & Fl. 49.

H. nudiflorum. Hook. Jour. Bot. 1. 199, excl. var. Reich. Hort. Bot. 1. 60, t. **87**?

H. opacum. Torr. & Gray, Fl. 1. 163. Eat. & Wr. 280. Dietr. 4. 1235.

Brathydium hyssopifolium. Spach, l. c. 365.

H. punctulosum. Bertol. Bot. Misc. 13. 18, **t. 3, f. 2** (Bot. Zeit. 14. 118), fide Gray, Am. Jour. Sci. 2. 20. 279.

H. concinnum. Benth. Pl. Hartw. 300. Durand, Pl. Pratten. 83. Torrey, Bot. Wilkes, 240.

H. bracteatum. Kellogg, Proc. Calif. Acad. 1. 65.

H. corymbosum. Muhl.; Willd. Spec. 3. 1457; Enum. 810. Persoon, 2. 89. Poir. Suppl. 3. 697. Pursh, 377. Bigel. Fl. Bost. 280. Torr. & Gray, Fl. 1. 160 & 673. Eat. & Wr. 279. Torrey, Fl. N. Y. 1. 87. Dietr. 4. 1234. Chapman, 40. Gray, Manual, 85.

H. Virginicum. Walter, 189.

H. maculatum. Michx. Fl. 2. 80, not Walt. Ait. f. Hort. Kew. 4. 426.

H. micranthum. Chois. Prodr. Hyper. 44, **t. 5** (Spreng. Neue Entdeck. 3. 302); DC. Prodr. 1. 546. Hook. Fl. Bor.-Am. 1. 109; Jour. Bot. 1. 199. Don, Mill. 1. 603. Eat. & Wr. 279.

H. punctatum. Spreng. Syst. 3. 343, not Lam. Torrey, Compend. 220. Reich. Hort. Bot. 1. 61, **t. 88.** Beck, Bot. 61. Darling. Fl. Cestr. 322. Spach, Ann. Sci. Nat. 2. 5. 357.

H. densiflorum. Pursh, 376. Poir. Suppl. 5. 734. Chois. in DC. Prodr. 1. 547. Don, Mill. 1. 604.

H. galioides. Pursh, 376, not Lam.
H. rostratum. Raf. Fl. Lud. 88. Eat. & Wr. 281.
H. prolificum, var. (?) γ. Torr. & Gray, Fl. 1. 159.
H. prolificum, var. *densiflorum.* Gray, Manual, 84.

H. dolabriforme. Vent. Hort. Cels, t. **45.** Persoon, 2. 89. Poir. Suppl. 3. 698. Pursh, 378. Chois. in DC. Prodr. 1. 547. Spreng. Syst. 3. 347. Don, Mill. 1. 604. Torr. & Gray, 1. 162. Eat. & Wr. 280. Dietr. 4. 1234. Gray, Manual, 84.

H. procumbens. Desf.; Willd. Spec. 3. 1450. Michx. Fl. 2. 81. Persoon, 2. 88. Poir. Suppl. 3. 695. Pursh, 378. Chois. in DC. Prodr. 1. 547. Spreng. Syst. 3. 347. Don, Mill. 1. 604.

Brathydium grandiflorum. Spach, l. c. 365; Hist. Veg. 5. 443.

H. Drummondii. Torr. & Gray, Fl. 1. 165. Eat. & Wr. 280. Dietr. 4. 1235. Torrey, Sitgr. Rep. 175. Chapman, 42. Gray, Manual, 86.

Sarothra Drummondii. Grev. & Hook. in Bot. Misc. 3. 236, **t. 107.** Hook. Jour. Bot. 1. 199.

Brathys Drummondii. Spach, Ann. Sci. Nat. 2. 5. 367.

H. elatum. Ait. Hort. Kew. 3. 104, not Lam. Willd. Spec. 3. 1448; Enum. 809. Don, Mill. 1. 601. Loud. Arbor. 1. 398. Torr. & Gray, Fl. 1. 166 & 673. Eat. & Wr. 280. Dietr. 4. 1235. Trevir. Hyper. 7. A doubtful species.

H. ellipticum. Hook. Fl. Bor.-Am. 1. 110. Torr. & Gray, Fl. 1. 164. Eat. & Wr. 279. Torrey, Nicol. Rep. 146; Fl. N. Y. 1. 88; Emory's Rep. 406. Dietr. 4. 1325. Gray, Manual, 85.

H. sphærocarpon. Barton, Fl. Philad. 2. 14, not Mic. Nutt. Genera, 2. 16.

H. fasciculatum. Lam. Dict. 4. 160. Pursh, 376. Chois. in DC. Prodr. 1. 554. Elliott, 2. 28. Spreng. Syst. 3. 344. Don, Mill. 1. 611. Torr. & Gray, Fl. 1. 160 Eat. & Wr. 280. Loud. Arbor. 1. 402. Dietr. 4. 1234. Chapman, 40. Wood, Cl.-Book, 248; Bot. & Fl. 49.

? *H. Coris.* Walter, 100.
H. nitidum. Lam. Dict. 4. 160. Persoon, 2. 88. Chois. in DC. Prodr. 1. 554.
? *H. fulgidum.* Raf. Fl. Lud. 88. Chois. in DC. Prodr. 1. 554.
Myriandra nitida. Spach, Ann. Sci. Nat. 2. 5. 365; Hist. Veg. 5. 436.

Var. **aspalathoides.** Torr. & Gray, Fl. 1. 672.
H. aspalathoides. Willd. Spec. 3. 1451. Persoon, 2. 88. Pursh, 376. Elliott, 2. 27. Eat. & Wr. 280.
H. tenuifolium. Pursh, 377. Don, Mill. 1. 611.
Myriandra brachyphylla. Spach, ll. cc.

H. Scouleri. Hook. Fl. Bor.-Am. 1. 111; Lond. Journ. Bot. 6. 74. Torr. & Gray, Fl. 1. 160. Eat. & Wr. 280. Dietr. 4. 1234. Benth. Pl. Hartw. 301. Gray, Pl. Fendl. 11; Proc. Am. Acad. 8. 377. Durand, Pl. Pratten. 83. Newberry, Pac. R. Rep. 6. 67. Cooper, same, 12. 56. Torrey, Mex. Bound. 36. Gray, Proc. Acad. Philad. 1863, 58. Boland. Cat. 6. Anderson, Cat. 118. Watson, King's Rep. 5. 45; Pl. Wheel. 6. Porter, Fl. Col. 15. Rothr. Pl. Wheel. 35. Brew. & Wats. Bot. Calif. 1. 81.

H. formosum. Gray, Pl. Wright. 2. 17; not HBK. Torrey, Mex. Bound. 36; Bot. Wilkes, 239.

H. galioides. Lam. Dict. 4. 161. Willd. Spec. 3. 1451. Persoon, 2. 88. Chois. in DC. Prodr. 1. 550. Torrey, Compend. 220. Spreng. Syst. 3. 344. Don, Mill. 1. 609. Hook. Jour. Bot. 1. 199. Torr. & Gray, Fl. 1. 160. Dietr. 4. 1234. Chapman, 40. Wood, Cl.-Book, 248; Bot. & Fl. 49.

H. axillare. Lam. Dict. 4. 160. Persoon, 2. 88. Chois. in DC. Prodr. 1. 550. Spreng. Syst. 3. 343. Don, Mill. 1. 609.

H. fasciculatum. Michx.; Willd. Spec. 3. 1452, not Lam. Michx. Fl. 2. 80. Persoon, 2. 88. Hook. Jour. Bot. 1. 199.

H. Michauxii. Poir. Suppl. 3. 696.

Myriandra galioides & *Michauxii.* Spach, ll. cc.

Var. **ambiguum.** Chapman, 40.

? *H. ambiguum.* Elliott, 2. 30. Torr. & Gray, Fl. 1. 162 & 673. Eat. & Wr. 280. Dietr. 4. 1234. Wood, Cl.-Book, 249; Bot. & Fl. 49.

H. graveolens. Buckley, Am. Jour. Sci. 45. 174. Gray, Genera, 1. 214, **t. 92**; Manual, 85. Chapman, 41.

H. Kalmianum. Linn. Spec. 783. Hill, Veg. Syst. 15, **t. 1, f. 2.** DuRoi, Obs. Bot. 29. Marsh. Arbust. 62. Lam. Dict. 4. 148. Willd. Spec. 3. 1438. Persoon, 2. 86. Pursh, 374. Chois. in DC. Prodr. 1. 545. Spreng. Syst. 3. 341. Torrey, Compend. 219; Fl. N. Y. 1. 86, **t. 13.** Maund, Bot. Gard. 5, **t. 194.** Hook. Fl. Bor.-Am. 1. 109. Don, Mill. 1. 603. Torr. & Gray, Fl. 1. 158. Eat. & Wr. 279. Dietr. 4. 1234. Loud. Arbor. 1. 401. Gray, Manual, 84.

H. maculatum. Walter, 189. Persoon, 2. 90. Poir. Suppl. 3. 701. Elliott, 2. 27. Torr. & Gray, Fl. 1. 161 & 673. Dietr. 4. 1234. Engelm. & Gray, Pl. Lindh. 33. Chapman, 40. Wood, Cl.-Book, 249; Bot. & Fl. 49. Gray, Hall's Pl. Tex. 5.

H. punctatum. Lam. Dict. 4. 164. Persoon, 2. 89. Chois. in DC. Prodr. 1. 547. Reich. Hort. Bot. 1. 61, **t. 88.** Don, Mill. 1. 604. Hook. Jour. Bot. 1. 199. Trevir. Hyper. 8.

H. mutilum. Linn. Spec. 787. Hill, Veg. Syst. 15, **t. 8, f. 1.** Lam. Dict. 4. 181. Willd. Spec. 3. 1471. Persoon, 2. 91. Ait. f. Hort. Kew. 4. 425. Torr. & Gray, Fl. 1. 164. Torrey, Fl. N. Y. 1. 88. Dietr. 4. 1235 (*rutilum*). Chapman, 41. Gray, Manual, 85; Hall's Pl. Tex. 3.

Ascyrum Crux-Andreæ. Linn. Spec. 787, not 2 ed., fide Torr. & Gray, Fl. 1. 672.

H. quinquenervium. Walter, 190. Michx. Fl. 2. 79. Poir. Suppl. 3. 697. Chois. in DC. Prodr. 1. 550. Torrey, Compend. 220. Spreng. Syst. 3. 346. Reich. Hort. Bot. 1. 64, **t. 96.** Hook. Fl. Bor.-Am. 1. 110; Jour. Bot. 1. 199. Don, Mill. 1. 608. Darling. Fl. Cestr. 323. Trevir. Hyper. 10.

H. parviflorum. Willd. Spec. 3. 1456. Persoon, 2. 89. Pursh, 377. Elliott, 2 24. Bigel. Fl. Bost. 280. Eat. & Wr. 279.

H. stellarioides. HBK. Nov. Gen. & Sp. 5. 196.

Brathys quinquenervia. Spach, Ann. Sci. Nat. 2. 5. 367.

Sarothra Blentinensis. Sav. Giorn. Pisan. 1839.

Var. **gymnanthum.** Gray, Manual, 86.

H. gymnanthum. Engelm. & Gray, Pl. Lindh. 4. Walp. Ann. 2. 188. Gray, Hall's Pl. Tex. 3.

H. myrtifolium. Lam. Dict. 4. 180. Chois. in DC. Prodr. 1. 547. Spreng. Syst. 3. 346. Don, Mill. 1. 604. Torr. & Gray, Fl. 1. 162. Dietr. 4. 1234. Chapman, 40. Wood, Cl.-Book, 249; Bot. & Fl. 49. Trevir. Hyper. 9.

H. glaucum. Michx. Fl. 2. 78. Poir. Suppl. 3. 697. Pursh, 376. Chois. in DC. Prodr. 1. 547. Elliott, 2. 32. Spreng. Syst. 3. 343. Don, Mill. 1. 606. Eat. & Wr. 280.

H. rosmarinifolium. Chois. in DC. Prodr. 1. 547, not Lam.

H. sessiliflorum. Willd.; Spreng. Syst. 3. 346. Don, Mill. 1. 601. Torr. & Gray, Fl. 1. 166.

Myriandra glauca. Spach, l. c. 365; Hist. Veg. 5. 442.

H. nudiflorum. Michx.; Willd. Spec. 3. 1456. Michx. Fl. 2. 78. Persoon, 2. 89. Ait. f. Hort. Kew. 4. 425. Poir. Suppl. 3. 697. Pursh, 375. Chois. in DC. Prodr. 1. 548. Elliott, 2. 32. Spreng. Syst. 3. 345. Don, Mill. 1. 606. Hook. Jour. Bot. 1. 199. Torr. & Gray, Fl. 1. 162. Eat. & Wr. 280. Dietr. 4. 1234. Chapman, 41. Gray, Manual, 84.

Myriandra nudiflora & ledifolia. Spach, ll. cc. 365 & 440.

H. PERFORATUM, Linn. Pursh, 377. Bigel. Fl. Bost. 279. Torrey, Compend. 220; Fl. N. Y. 1. 86. Hook. Fl. Bor.-Am. 1. 110. Torr. & Gray, Fl. 1. 160. Eat. & Wr. 279. Chapman, 40. Hook. f. Arct. Pl. 288. Gray, Struct. Bot. 395, **f. 720–723**; Manual, 85.

H. pseudoperforatum. Bertol. Bot. Misc. 3. 14, **t. 5, f. 1.**

H. prolificum. Linn. Mant. 106. Ait. Hort. Kew. 3. 105. Moench, Meth. 128. Lam. Dict. 4. 159. Willd. Spec. 3. 1453; Enum. 809. Persoon, 2. 88. Pursh, 375. Chois. in DC. Prodr. 1. 547. Elliott, 2. 30. Torrey, Compend. 220. Spreng. Syst. 3. 343. Don, Mill. 1. 605. Hook. Jour. Bot. 1. 199. Torr. & Gray, Fl. 1. 159, excl. var. γ. Eat. & Wr. 279. Loud. Arbor. 1. 401, & 5. 2541, **f. 2415.** Dietr. 4. 1234. Chapman, 39. Lesqx. Fl. Ark. 350. Gray, Manual, 84, excl. var.

H. foliosum. Jacq. Hort. Schœnb. 3. 27, **t. 299.**

Myriandra prolifica & spathulata. Spach, ll. cc. 365 & 439.

H. pyramidatum. Ait. Hort. Kew. 3. 103. Willd. Spec. 3. 1444; Enum. 809. Vent. Hort. Malm. **t. 118.** Persoon, 2. 87. Pursh, 374. Chois. in DC. Prodr. 1. 545. Spreng. Syst. 3. 342. Don, Mill. 1. 602. Torr. & Gray, Fl. 1. 158. Eat. & Wr. 279. Torrey, Fl. N. Y. 1. 85, **t. 12**; Nicol. Rep. 146. Dietr. 4. 1234. Gray, Genera, 1. 214, **t. 93** (fruit); Manual, 84. Parry, Pl. Minn. 609. Pl. Bourgeau, 255.

H. amplexicaule. Lam. Dict. 4. 147.

H. ascyroides. Willd. Spec. 3. 1443. Persoon, 2. 87. Poir. Suppl. 3. 694. Pursh, 374. Bigel. Fl. Bost. 279. Chois. in DC. Prodr. 1. 545. Torrey, Compend. 219. Hook. Fl. Bor.-Am. 1. 109. Don, Mill. 1. 602.

H. macrocarpum. Michx. Fl. 2. 82. Persoon, 2. 86. Spreng. Syst. 3. 342.

Roscyna Americana. Spach, Ann. Sci. Nat. 2. 5. 364; Hist. Veg. 5. 431.

? *Brathydium Canadense.* Spach, ll. cc. 365 & 446.

H. setosum. Linn. Spec. 787. Hill, Veg. Syst. 15, **t. 8, f. 2.** Ait. Hort. Kew. 3. 108. Lam. Dict. 4. 181. Willd. Spec. 3. 1472. Persoon, 2. 91.

Ascyrum villosum. Linn. Spec. 788. Hill, Veg. Syst. 12, **t. 34, f. 2,** & 15, **t. 9, f. 2.** Marsh. Arbust. 14. Lam. Dict. 1. 286. Willd. Spec. 3. 1474.

H. pilosum. Walter, 190. Nutt. Genera, 2. 16. Chois. in DC. Prodr. 1. 549. Spreng. Syst. 3. 346. Don, Mill. 1. 607. Torr. & Gray, Fl. 1. 163. Eat. & Wr. 280. Dietr. 4. 1235. Chapman, 41. Wood, Cl.-Book, 250; Bot. & Fl. 50. Trevir. Hyper. 9.

H. simplex. Michx. Fl. 2. 80. Poir. Suppl. 3. 698. Pursh, 379. Nutt. Genera, 2. 16. Chois. in DC. Prodr. 1. 549. Elliott, 2. 25. Spreng. Syst. 3. 342. Don, Mill. 1. 607. Hook. Jour. Bot. 1. 199.

H. Nuttallii. Don, Mill. 1. 607.

Brathys tomentosa. Spach, ll. cc. 367 & 453.

H. Sarothra. Michx. Fl. 2. 79. Pursh, 378. Poir. Suppl. 5. 39. Torrey, Compend. 221; Fl. N. Y. 1. 89. Spreng. Syst. 3. 350. Darling. Fl. Cestr. 324. Torr. & Gray, Fl. 1. 165. Eat. & Wr. 280. Dietr. 4. 1235. Gray, Genera, 1. 214, **t. 93, f. 1–7**; Manual, 86 Chapman, 42.

Sarothra gentianoides. Linn. Spec. 272. Hill, Veg. Syst. 13, **t. 23.** Ait. Hort.

Kew. 1. 380. Willd. Spec. 1. 1515. Lam. Ill. t. **215**, f. **1**. Persoon, 1. 331. Bigel. Fl. Bost. 121. Elliott, 1. 371. Grev. & Hook. Bot. Misc. 3. 226. Hook. Jour. Bot. 1. 199.

H. nudicaule. Walter, 190.

Sarothra hypericoides. Nutt. Genera, 1. 204. Barton, Fl. N. Am. 3. 59, t. **92**, f. **1**. Don, Mill. 1. 612.

Brathys gentianoides. Spach, ll. cc. 367 & 455.

H. sphærocarpum. Michx. Fl. 2. 78. Poir. Suppl. 3. 693. Pursh, 378. Chois. in DC. Prodr. 1. 548. Spreng. Syst. 3. 347. Don, Mill. 1. 606. Torr. & Gray, Fl. 1. 163. Eat. & Wr. 281. Dietr. 4. 1235. Gray, Manual, 85.

Brathydium sphærocarpum & *Chamænerium.* Spach, ll. cc. 365 & 444.

H. triplinerve. Vent. Hort. Cels, t. **58**. Persoon, 2. 91. Poir. Suppl. 3. 701. Pursh, 378. Chois. in DC. Prodr. 1. 552. Spreng. Syst. 3. 349. Don, Mill. 1. 610. Torr. & Gray, Fl. 1. 166. Eat. & Wr. 280. — Excluded as not American by Torr. & Gray, Fl. 1. 674.

H. acutifolium; angulosum.
ambiguum; galioides.
amœnum; aureum.
amplexicaule; pyramidatum.
ascyroides; aureum, pyramidatum.
aspalathoides; fasciculatum.
axillare; galioides, Elodes petiolata.
Bonapartæ; adpressum.
bracteatum; concinnum.
campanulatum; Elodes petiolata & Virginica.
Caris: fasciculatum.
denticulatum; angulosum.
emarginatum; Elodes Virginica.
fasciculatum; galioides.
fastigiatum; adpressum.
foliosum; prolificum.
frondosum; aureum.
fulgidum; fasciculatum.
galioides; densiflorum.
glaucum; myrtifolium.
gymnanthum; mutilum.
hedyotifolium & *lævigatum;* angulosum.
Lasianthus; Gordonia Lasianthus.
laurocerasifolium; Hopea tinctoria.
macrocarpum; pyramidatum.
maculatum & *micranthum;* corymbosum.
Michauxii; galioides.
Moramense; Canadense.
mutilum; anagalloides.
nitidum; fasciculatum.

H. nudicaule; Sarothra.
nudiflorum; cistifolium.
Nuttallii; setosum.
opacum; cistifolium.
paludosum; Elodes petiolata.
parviflorum; mutilum.
pauciflorum; Canadense.
petiolatum; Elodes petiolata.
pilosum; setosum.
procumbens; dolabriforme.
prolificum; densiflorum.
pseudoperforatum; perforatum.
punctatum; corymbosum, maculatum.
punctulosum; cistifolium.
quinquenervium; mutilum.
rosmarinifolium; cistifolium, myrtifolium.
rostratum; densiflorum.
Rugelianum; aureum.
rutilum; mutilum.
sessiliflorum; myrtifolium.
simplex; setosum.
sphærocarpon; ellipticum.
stellarioides; mutilum.
tenuifolium; fasciculatum.
tetrapetalum; Ascyrum amplexicaule.
thesiifolium; Canadense.
tubulosum; Elodes tubulosa.
virgatum; angulosum.
Virginicum; corymbosum, Elodes Virginica.

GUTTIFERÆ.

CLUSIA FLAVA, Linn. Nutt. Sylva, 2. 111, **t. 77.** Chapman, 43.
C. rosea? Torr. & Gray, Fl. 1. 168.

TERNSTRŒMIACEÆ.

GORDONIA Lasianthus. Linn. Mant. 1. 570. Ellis, Phil. Trans. 60. 518, **t. 11**; Letters, **t. 2.** L'Her. Stirp. Nov. 156. Cav. Diss. 2. 307, **t. 161.** Walter, 177. Ait. Hort. Kew. 2. 231. Bartram, Trav. 161. Lam. Dict. 2. 770; Ill. 3. 146, **t. 594, f. 1.** Swartz, Obs. Bot. 271. Willd. Spec. 3. 840. Michx. Fl. 2. 43. Sims, Bot. Mag. **t. 668.** Nouv. Duham. 2. 236, **t. 68.** Persoon, 2. 259. Michx. f. Arbr. Amer. 3. 131, **t. 1.** Pursh, 451. Nutt. Genera, 2. 84. Elliott, 2. 171. DC. Prodr. 1. 528. Spreng. Syst. 3. 125. Don, Mill. 1. 573, **f. 99.** Audub. Birds, **t. 168.** Reich. Fl. Exot. **t. 151.** Spach, Hist. Veg. 4. 79. Torr. & Gray, Fl. 1. 223. Eat. & Wr. 258. Loud. Arbor. 1. 379, **f. 93.** Dietr. 4. 862. Gray, Genera, 2. 103, **t. 140, 141**; Manual, 104. Choisy, Mem. Ternst. & Camel. 51. Curtis, Bot. N. Car. 80. Chapman, 60. Baill. Hist. Pl. 4. 230, **f. 254, 255.**

Hypericum Lasianthus. Linn. Spec. 783. Hill, Veg. Syst. 15, **t. 1, f. 3.**

Gordonia pyramidalis. Salisb. Prodr. Stirp. 386.

G. pubescens. L'Her. Stirp. 156. Lam. Dict. 2. 770. Cav. Diss. 2. 308, **t. 162.** Ait. Hort. Kew. 2. 231. Willd. Spec. 3. 841. Michx. Fl. 2. 43. Vent. Jard. Malm. **t. 1** (Schrad. Neues Jour. Bot. 1806, 121). Nouv. Duham. 2. 237. Kön. & Sims, Ann. Bot. 1. 171. Persoon, 2. 259. Michx. f. Arbr. Amer. 3. 135, **t. 2.** Pursh, 451. Nutt. Genera, 2. 84. Loisel. Herb. Amat. 4, **t. 236.** Elliott, 2. 171. DC. Prodr. 1. 528. Spreng. Syst. 3. 125. Don, Mill. 1. 573. Audub. Birds, **t. 185.** Spach, Hist. Veg. 4. 80. Torr. & Gray, Fl. 1. 223. Eat. & Wr. 258. Loud. Arbor. 1. 380, **f. 94.** Dietr. 4. 862. Gray, Genera, 2. 102, **t. 141, f. 11–14**, & **t. 142.** Choisy, l. c. 51. Chapman, 60. Wood, Cl.-Book, 274; Bot. & Fl. 65.

Franklinia Alatamaha. Marsh. Arbust. 49. Bartram, Trav. 16 & 467. Raf. Atl. Jour. 79, **fig.**

Gordonia Franklini. L'Her. Stirp. 156. Willd. Spec. 3. 841. Nouv. Duham. 2. 237. Persoon, 2. 259. Poir. Suppl. 2. 816.

Michauxia sessilis. Salisb. Prodr. Stirp. 386.

Lacathea florida. Salisb. Parad. Lond. **t. 56.** Colla, Hort. Ripul. Appx. 1. 134.

STUARTIA pentagyna. L'Her. Stirp. 155, **t. 74.** Willd. Spec. 3. 840. Nouv. Duham. 1. 15, **t. 6.** Smith, Exot. Bot. 2. 101, **t. 110.** Ait. f. Hort. Kew. 4. 234. Pursh, 452. Elliott, 2. 173. Torr. & Gray, Fl. 1. 224. Eat. & Wr. 445. Hook. Bot. Mag. **t. 3918.** Gray, Genera, 2. 100, **t. 139**; Manual, 104. Curtis, Bot. N. Car. 103. Chapman, 61.

Malachodendron ovatum. Cav. Diss. 2, **t. 158, f. 2.** Michx. Fl. 2. 43. Persoon, 2. 260. Lam. Dict. 3. 686; Ill. **t. 593, f. 1.** DC. Prodr. 1. 528. Spreng. Syst. 3. 126. Lindl. Bot. Reg. **t. 1104.** Don, Mill. 1. 572. Spach, Hist. Veg. 4. 77. Loud. Arbor. 1. 377, **f. 91.** Dietr. 4. 863.

Stuartia montana. Bartram, Trav. 334.

Malachodendron pentagynum. Choisy, Mem. Ternstr. 49.

S. Virginica. Cav. Diss. 2, **t. 159, f. 2.** Michx. Fl. 2. 43. Poir. Dict. 7. 441. Persoon, 2. 66. Pursh, 451. Lam. Ill. **t. 593, f. 1.** Elliott, 2. 172. DC. Prodr.

1. 528. Spreng. Syst. 3. 126. Don, Mill. 1. 572. Hook. Jour. Bot. 1. 198. Spach, Hist. Veg. 4. 78. Eat. & Wr. 445. Loud. Arbor. 1. 378, **f. 92.** Gray, Genera, 2. 99, **t. 138**; Manual, 104. Choisy, Mem. Ternst. 48. Curtis, Bot. N. Car. 103. Chapman, 61. Baill. Hist. Pl. 4. 230, **f. 256–260.**

S. Malachodendron. Linn. Spec. 2 ed. 982. Marsh. Arbust. 149. L'Her. Stirp. 153, **t. 73.** Walter, 176. Ait. Hort. Kew. 2. 459. Willd. Spec. 3. 840. Nouv. Duham. 1. 16. Audub. Birds, **t. 17.** Torr. & Gray, Fl. 1. 224. Dietr. 4. 863.

S. Marylandica. Donn, Hort. Cantab. 3 ed. Andr. Bot. Rep. 6, **t. 397.** Poir. Suppl. 5. 249.

MALVACEÆ.

ABUTILON Avicennæ, Gærtn. Torr. & Gray, Fl. 1. 230. Eat. & Wr. 111. Torrey, Fl. N. Y. 1. 113. Parry, Pl. Minn. 610. Darling. Fl. Cestr. 2 ed. 36. Engelm. Pl. Upp. Miss. 186. Chapman, 55. Gray, Manual, 101.

Sida Abutilon, Linn. Pursh, 453. Elliott, 2. 162. Torrey, Compend. 255. Beck, Bot. 58. Hook. Jour. Bot. 1. 198. Darling. Fl. Cestr. 397. Bigel. Fl. Bost. 3 ed. 276.

A. Californicum. Benth. Bot. Sulph. 8. Walp. Rep. 5. 95. Gray, Proc. Am. Acad. 5. 154. (Lower California.)

A. crispum. Don, Mill. 1. 502. Gray, Pl. Fendl. 23; Genera, 2. 67, **t. 126**; Pl. Wright. 1. 21; Pl. Thurb. 308. Griseb. Fl. Brit. W. Ind. 79. Torrey, Mex. Bound. 39. Chapman, 56.

Sida crispa. Linn. Spec. 685. Cav. Diss. 1. 30, **t. 7, f. 1,** & 2. 275, **t. 135, f. 2.** Ait. Hort. K 2. 449. Willd. Spec. 3. 747; Enum. 721. Persoon, 2. 244. Pursh, 453. Elli 161. DC. Prodr. 1. 469. Torr. & Gray, Fl. 1. 235. Eat. & Wr. 425.

Sida amplexicaulis. Lam. Dict. 1. 7.

Beloere crispa. Shuttlw.; Gray, Pl. Wright 1. 21.

Var. **imberbe.** Griseb. Fl. Brit. W. Ind. 80.

Sida imberbis. DC. Prodr. 1. 469.

A. trichodum. Rich. Bot. Cuba, 155, **t. 17.** Walp. Rep. 1. 324. Gray, Genera, 2. 67.

A. holosericeum. Scheele, Linn. 21. 471. Gray, Pl. Lindh. 162; Pl. Wright. 1. 20. Walp. Ann. 2. 157. Torrey, Mex. Bound. 39.

A. velutinum. Gray, Genera, 2. 67 & 230, **t. 125.**

A. hypoleucum. Gray, Pl. Wright. 1. 20. Walp. Ann. 4. 315.

A. Indicum. Don, Mill. 1. 504. See syn. in Griseb. Fl. W. Ind. 78.

Var. **hirtum.** Griseb. l. c.

Beloere cistiflora. Shuttlw. in herb.

A. Jacquini. Don, Mill. 1. 503. Chapman, 56.

Sida abutiloides. Jacq. Obs. 1. 17, **t. 7.**

Sida crassifolia. L'Her. Stirp. 125, **t. 60.**

Sida lignosa & *tricuspidata.* Cav. Diss. **t. 6, f. 2** & **5.**

Sida periplocifolia, var. *Caribæa.* Gray, Genera, 2. 67, not Rich.

A. peraffine. Shuttlw; Gray, Pl. Wright, 1. 20.

A. lignosum. Rich. Fl. Cuba, 152, with syn. Griseb. Fl. Brit. W. Ind. 79, and syn.

A. Palmeri. Gray, Proc. Am. Acad. 8. 289.

A. parvulum. Gray, Pl. Wright. 1. 21 & 2. 23. Walp. Ann. 4. 315. Torrey, Pac R. Rep. 4. 72; Mex. Bound. 39. Porter, Fl. Col. 16.

A. pedunculare. HBK. Nov. Gen. & Spec. 5. 273. Griseb. Fl. W. Ind. 78.

Sida peduncularis. DC. Prodr. 1. 469.

? *Sida Hulseana.* Torr. & Gray, Fl. 1. 233. Eat. & Wr. 425. Walp. Rep. 1. 316. Dietr. 4. 845.

? *A. Hulseanum.* Torrey; Gray, Pl. Fendl. 23, referring it doubtfully to *A. confertiflorum*, Rich. Chapman, 56. Wood, Bot. & Fl. 62.

A. permolle. Don, Mill. 1. 503. Gray, Pl. Wright. 1. 20. Griseb. Fl. W. Ind. 78.

Sida permollis. Willd. Enum. 725. DC. Prodr. 1. 471. Spreng. Syst. 3. 114.

A. Sonoræ. Gray, Pl. Wright. 2. 23; Pl. Thurb. 308. Walp. Ann. 4. 315.

A. Texense. Torr. & Gray, Fl. 1. 231. Eat. & Wr. 111. Gray, Pl. Lindh. 161; Pl. Wright. 1. 21 & 2. 23; Pl. Thurb. 308; Hall's Pl. Tex. 5. Torrey, Mex. Bound. 39. Young, Fl. Tex. 183.

A. Nuttallii. Torr. & Gray, Fl. 1. 231. Eat. & Wr. 111.

A. Thurberi. Gray, Pl. Thurb. 307. Walp. Ann. 4. 314. Torrey, Mex. Bound. 39.

A. Wrightii. Gray, Pl. Lindh. 162; Pl. Wright. 1. 20 & 2. 23; Hall's Pl. Tex. 5. Walp. Ann. 2. 157.

ALTHÆA OFFICINALIS, Linn. Bigel. Fl. Bost. 259. Torrey, Compend. 255. Fl. N. Y. 1. 112. Beck, Bot. 57. Darling. Fl. Cestr. 395. Torr. & Gray, Fl. 1. 229. Gray, Manual, 99.

ANODA cristata. Schlecht. in Linn. 11. 210.

Sida cristata. Linn Spec. 2 ed. 964. Ait. Hort. Kew. 2. 444. Curtis, Bot. Mag. **t. 330.** Willd. Spec. 3. 763.

A. Dilleniana. Cav. Diss. 1. 40, **t. 11, f. 1.** DC. Prodr. 1. 458.

A. triloba. Cav. Diss. 1. 39, **t. 10, f. 3.** DC. Prodr. 1. 458.

A. hastata. Cav. Diss. 1. 38, **t. 11, f. 2.** HBK. Nov. Gen. 5. 297. DC. Prodr. 1. 458. Schlecht. in Linn. 11. 214, with syn. Gray, Genera, 2. 64, **t. 124**; Pl. Wright. 1. 20 & 2. 23. Griseb. Fl. Brit. W. Ind. 73. Torrey, Mex. Bound. 39.

Sida hastata. Willd. Spec. 3. 763. Sims, Bot. Mag. **t. 1541.**

A. acerifolia. DC. Prodr. 1. 459, with syn.

A. parviflora. Cav. Icon. 5. 19, **t. 431.** Link, Enum. 2. 207. DC. Prodr. 1. 459. Reich. Hort. Bot. **t. 44.** Gray, Pl. Thurb. 308.

? *A. crenatiflora.* Orteg. Dec. 8. 96. Schlecht. in Linn. 11. 217, with syn.

Sida parviflora. Willd. Enum. 726.

A. Wrightii. Gray, Pl. Wright. 2. 22. Walp. Ann. 4. 310. Torrey, Mex. Bound. 39.

A. pentaschista. Gray, Pl. Wright. 2. 22. Walp. Ann. 4. 310. Torrey, Mex. Bound. 39.

CALLIRRHOE alcæoides. Gray, Pl. Fendl. 18; Genera, 2. 53; Manual, 100. Chapman, 54.

Sida alcæoides. Michx. Fl. 2. 44. Persoon, 2. 247. Poir. Suppl. 1. 34. Pursh, 453. DC. Prodr. 1. 474. Don, Mill. 1. 406. Torr. & Gray, Fl. 1. 234 & 681. Eat. & Wr. 425. Dietr. 4. 859. Wood, Bot. & Fl. 61.

Sida macrorhiza. James, Long's Exp. 2. 121.

Malva pedata, var. (?) *umbellata.* Torr. & Gray, Fl. 1. 227. Hook. in Lond. Jour. Bot. 6. 76.

C. macrorhiza. Gray, Pl. Fendl. 18; Proc. Acad. Philad. 1862, 161. Walp. Ann. 2. 150. Engelm. Pl. Upp. Miss. 186.

C. digitata. Nutt. in Jour. Acad. Philad. 2. 181 (Linn. Litt.-Ber. 1829, 41). Gray, Pl. Lindh. 160; Pl. Fendl. 17; Genera, 2. 51; Pl. Wright. 1. 15 & 2. 20; Hall's Pl. Tex. 5. Torrey, Marcy's Rep. 281. Torr. & Gray, Pac. R. Rep. 2. 160.

Nuttallia digitata. Barton, Fl. N. Am. 2. 74, t. **62**. Sweet, Brit. Fl. Gard. t. **129**. Sims, Bot. Mag. t. **2612**. Torrey, Ann. Lyc. N. Y. 2. 172. Hook. Exot. Fl. 3, t. **171**. Don, Mill. 1. 504. Spach, Hist. Veg. 3. 401.

Nuttallia pedata. Barton, Fl. N. Am. 2. 74. Torrey, Ann. Lyc. N. Y. 2. 171 (as *N. palmata*). Nutt.; Hook. Exot. Fl. 3, t. **172**; Jour. Bot. 1. 197. Don, Mill. 1. 504.

Nuttallia cordata. Lindl. Bot. Reg. 23, t. **1938**.

Malva digitata. Torr. & Gray, Fl. 1. 227. Eat. & Wr. 313. Walp. Rep. 1. 292. Dietr. 4. 817. Young, Fl. Tex. 181.

Malva pedata. Torr. & Gray, Fl. 1. 227, excl. var. Eat. & Wr. 313. Walp. Rep. 1. 292. Dietr. 4. 818. Torrey, Frem. Rep. 88; Emory's Rep. 138 & 407.

C. involucrata. Gray, Pl. Lindh. 159; Pl. Fendl. 15 & 17; Genera, 2. 54, t. **117**; Pl. Wright. 2. 20; Am. Jour. Sci. 2. 33. 407. Walp. Ann. 2. 150. Torrey, Marcy's Rep. 281; Stansb. Rep. 384; Pac. R. Rep. 4. 71; Mex. Bound. 38. Engelm. Pl. Upp. Miss. 186. Torr. & Gray, Pac. R. Rep. 2. 126 & 160. Porter, Fl. Col. 15.

Nuttallia involucrata. Nutt.; Torrey, in Ann. Lyc. N. Y. 2. 172.

Malva involucrata. Torr. & Gray, Fl. 1. 226. Eat. & Wr. 313. Dietr. 4. 817. Torrey, Frem. Rep. 88. Hook. Bot. Mag. t. **4681**. Lemaire, Jard. Fleur. t. **356**. Walp. Ann. 4. 298.

C. verticillata. Grönl. in Rev. Hort. 1862, 171 & t.

Var. **lineariloba.** Gray, Proc. Acad. Philad. 1862, 161.

C. palmata. Buckl. in Proc. Acad. Philad. 1861, 449.

Malva lineariloba. Young, Fl. Tex. 180.

C. Papaver. Gray, Pl. Fendl. 17; Genera, 2. 54, t. **118**, f. **5** (carpel); Hall's Pl. Tex. 5. Chapman, 53.

Malva Papaver. Cav. Diss. 1. 64, t. **15**, f. **3**. Desr. in Lam. Dict. 3. 743. Willd. Spec. 3. 789. Persoon, 1. 251. DC. Prodr. 1. 431. Spreng. Syst. 3. 92. Torr. & Gray, Fl. 1. 226 & 681, excl. syn. Dietr. 4. 817. Hook. in Lond. Jour. Bot. 6. 76. Engelm. in Wisliz. Rep. 3. Wood, Cl.-Book, 267; Bot. & Fl. 60. Young, Fl. Tex. 181.

Malva nuttallioides. Croom, Am. Jour. Sci. 26. 312 & 28. 168.

Nuttallia Papaver. Grah. in Bot. Mag. t. **3287** (Ann. Sci. Nat. 2. 5. 254); Edinb. Phil. Jour. Jan. 1834. Hook. Jour. Bot. 1. 196; Lond. Jour. Bot. 6. 76. Spach, Hist. Veg. 3. 401. Don, Sweet's Brit. Fl. Gard. t. **279**. Maund, Bot. Gard. 11, t. **489**. Paxton, Mag. Bot. 6. 173 & t.

Nuttallia grandiflora. Paxt. Mag. Bot. 5. 217 & t. Ann. Gand, 1847, t. **167**.

C. pedata. Gray, Pl. Lindh. 160; Pl. Fendl. 17, excl. syn.; Genera, 2. 53, t. **118**, f. **1-4**; Pl. Wright. 1. 15 & 2. 20. Rev. Hort. 6. 429, f. **148**.

C. triangulata. Gray, Pl. Fendl. 16; Genera, 2. 54, t. **118**, f. **6**, **7** (carpel); Manual, 108. Chapman, 53.

Malva triangulata. Leavenw. in Am. Jour. Sci. 7. 62. Eat. & Wr. 313. M. A. Curtis, Am. Jour. Sci. 2. 7. 406. Wood, Bot. & Fl. 60.

Nuttallia cordifolia. Nutt. in Jour. Acad. Philad. 7. 98.

Nuttallia triangulata. Hook. Jour. Bot. 1. 197.

Malva Houghtonii. Torr. & Gray, Fl. 1. 225 & 681. Eat. & Wr. 313. Walp. Rep. 1. 294. Dietr. 4. 813. Engelm. in Am. Jour. Sci. 46. 96.

FUGOSIA Drummondii. Gray, Pl. Wright. 1. 23. Walp. Ann. 4. 308.

Elidurandia Texana. Buckl. in Proc. Acad. Philad. 1861, 450; fide Gray, in same, 1862, 162. Walp. Ann. 7. 409.

GOSSYPIUM Davidsoni. Kellogg, Proc. Calif. Acad. 5. 82. (Lower Calif.)

G. —— ? Benth. Bot. Sulph. 8.

HIBISCUS aculeatus. Walter, 177. Poir. Suppl. 3. 220. Torr. & Gray, Fl. 1. 236. Chapman, 57. Wood, Cl.-Book, 269; Bot. & Fl. 62.

H. scaber. Michx. Fl. 2. 45. Persoon, 2. 257. Poir. Suppl. 3. 220. Pursh, 457. DC. Prodr. 1. 449. Elliott, 2. 169. Spreng. Syst. 3. 102. Don, Mill. 1. 478. Hook. Jour. Bot. 1. 197. Eat. & Wr. 269. Dietr. 4. 831.

H. Bancroftianus. Macf. Fl. Jam. 1. 70. Walp. Rep. 1. 306. Griseb. Fl. Brit. W. Ind. 85.

Achania pilosa. Swartz, Prodr. 102; Fl. Ind. 2. 1224. Ait. Hort. Kew. 2. 459. Spreng. Syst. 3. 100.

Malvaviscus pilosus & *penduliflorus* ? DC. Prodr. 1. 445.

Achania Poeppigii. Spreng. Syst. 3. 100.

Malvaviscus Floridanus. Nutt. in Jour. Acad. Philad. 7. 89. Torr. & Gray, Fl. 1. 229. Eat. & Wr. 314. Gray, Genera, 2. 78. Wood, Cl.-Book, 269.

Hibiscus truncatus. Rich. Fl. Cuba, 144, **t. 16.** Walp. Rep. 1. 305.

H. Poeppigii. Garcke, Jahresb. Halle, 1850, 133.

H. Floridanus. Shuttlw.; Chapman, 58. Wood, Bot. & Fl. 63.

H. Californicus. Kellogg, Proc. Calif. Acad. 4. 292.

? *H. Moscheutos*, var. *occidentalis.* Torrey, Bot. Wilkes, 256.

H. cardiophyllus. Gray, Pl. Wright. 1. 22. Walp. Ann. 4. 304. Torrey, Mex. Bound. 40.

H. Carolinianus. Muhl. Cat. 65. Elliott, 2. 168. Hook. Jour. Bot. 1. 198. Torr. & Gray, Fl. 1. 237. Eat. & Wr. 269. Chapman, 58. Wood, Cl.-Book, 270; Bot. & Fl. 63.

H. coccineus. Walter, 177. Bartram, Trav. 104. Torr. & Gray, Fl. 1. 238. Eat. & Wr. 269. Chapman, 58. Wood, Cl.-Book, 270; Bot. & Fl. 63.

H. speciosus. Ait. Hort. Kew. 2. 456. Wendl. Hort. Herr. **t. 11.** Curtis, Bot. Mag. **t. 360.** Salisb. Prodr. Stirp. 383. Willd. Spec. 3. 822; Enum. 737. Michx. Fl. 2. 47. Persoon, 2. 256. Poir. Suppl. 3. 218. Pursh, 456. Barton, Fl. N. Am. 1. 33, **t. 9.** Elliott, 2. 170. DC. Prodr. 1. 451. Spreng. Syst. 3. 105. Don, Mill. 1. 481. Spach, Hist. Veg. 3. 379. Dietr. 4. 834. Kolb, Rev. Hort. 1866, 230 & t

H. Coulteri. Harv.; Gray, Pl. Wright. 1. 23 & 2. 24. Walp. Ann. 4. 305. Torrey, Mex. Bound. 40.

H. denudatus. Benth. Bot. Sulph. 7, **t. 3.** Torrey, Pac. R. Rep. 5. 360.

Var. **involucellatus.** Gray, Pl. Wright. 1. 22 & 2. 23. Torrey, Pac. R. Rep. 7. 8; Mex. Bound. 40.

H. furcellatus. Desr. in Lam. Dict. 3. 358. DC. Prodr. 1. 449. Spreng. Syst. 3. 102. Wright & Sauv. Fl. Cub. 13.

H. grandiflorus. Michx. Fl. 2. 46. Persoon, 2. 257. Poir. Suppl. 3. 219. Pursh, 455. James, Cat. 185. Elliott, 2. 166. DC. Prodr. 1. 451. Torrey, Ann. Lyc. N. Y. 2. 172. Spreng. Syst. 3. 105. Audub. Birds, **t. 20.** Don, Mill. 1. 481. Spach, Hist. Veg. 3. 380 Torr. & Gray, Fl. 1. 238. Eat. & Wr. 269. Dietr. 4. 834. Chapman, 58. Gray, Manual, 102.

H. incanus. Schrader, Sert. Hann. **t. 24.** Wendl. Bot. Beobacht. 54; Hort Herr. 4. 8, **t. 24.** Kerner, Hort. Semp. **t. 105.** Willd. Spec. 3. 807. Persoon, 2. 254. Poir. Suppl. 3. 216. Pursh, 455. Elliott, 2. 167. DC. Prodr. 1. 451. Spreng. Syst. 3. 105. Don, Mill. 1. 480. Hook. Jour. Bot. 1. 197. Torr. & Gray, Fl. 1. 237. Eat. & Wr. 269. Dietr. 4. 833. Chapman, 57.

H. Manihot, Linn. Michx. Fl. 2. 45. Pursh, 457. Don, Mill. 1. 457. Torr. & Gray, Fl. 1. 236. Eat. & Wr. 269.

? *H. Collinsianus.* Torr. & Gray, Fl. 1. 237, in part, not Nutt.

Abelmoschus Manihot, Medic. Wood, Cl.-Book, 270.

H. militaris. Cav. Diss. 352, **t. 198, f. 2.** Willd. Spec. 3. 808. Persoon, 2. 254. Pursh, 456. Sims, Bot. Mag. **t. 2385.** Elliott, 2. 168. DC. Prodr. 1. 451. Torrey, Compend. 256; Ann. Lyc. N. Y. 2. 172. Spreng. Syst. 3. 106. Don, Mill. 1. 480. Beck, Bot. 58. Hook. Jour. Bot. 1. 198. Spach, Hist. Veg. 3. 379. Torr. & Gray, Fl. 1. 238. Eat. & Wr. 269. Dietr. 4. 834. Chapman, 58. Gray, Manual, 102.

H. lævis. Scop. Del. Flor. 3. 35, **t. 17.** Lam. Dict. 3. 362.

H. Virginicus. Walter, 177.

H. hastatus. Michx. Fl. 2. 45.

H. riparius. Persoon, 2. 254. Poir. Suppl. 3. 217.

H. Moscheutos. Linn. Spec. 693. Hill, Veg. Syst. 15, **t. 21, f. 1.** Cav. Diss. 163, **t. 65, f. 1.** Walter, 176. Willd. Spec. 3. 806. Michx. Fl. 2. 47. Persoon, 2. 254. Pursh, 455. Elliott, 2. 165. DC. Prodr. 1. 450. Torrey, Compend. 255; Fl. N. Y. 1. 115; Pac. R. Rep. 4. 72. Spreng. Syst. 3. 104. Sweet, Brit. Fl. Gard. **t. 286.** Hook. Fl. Bor.-Am. 1. 107; Jour. Bot. 1. 197. Don, Mill. 1. 480. Beck, Bot. 57. Spach, Hist. Veg. 3. 377. Torr. & Gray, Fl. 1. 237. Eat. & Wr. 269. Dietr. 4. 833. Lindl. Bot. Reg. 33, **t. 7.** Gray, Genera, 2. 82, **t. 133**; Manual, 102. Fl. Serres, 1857, **t. 1233.** Chapman, 57.

H. palustris. Linn. Spec. 693. Hill, l. c. **f. 2.** Cav. Diss. 162, **t. 65, f. 2.** Walter, 176. Ait. Hort. Kew. 2. 454. Lam. Dict. 3. 362. Willd. Spec. 3. 808; Enum. 735. Sims, Bot. Mag. **t. 882.** Persoon, 2. 254. Pursh, 455. Bigel. Fl. Bost. 259. DC. Prodr. 1. 450. Elliott, 2. 165. Torrey, Compend. 256. Spreng. Syst. 3. 105. Hook. Fl. Bor.-Am. 1. 107; Jour. Bot. 1. 197. Don, Mill. 1. 480. Beck, Bot. 58. Lindl. Bot. Reg. 17, **t. 1463.** Spach, Hist. Veg. 3. 378. Dietr. 4. 833.

H. ribifolius. Gray, Proc. Am. Acad. 5. 154. (Lower California.)

H. Syriacus, Linn. Gray, Manual, 102.

H. tiliaceus. Linn. Spec. 694. See syn. in Griseb. Fl. Brit. W. Ind. 86, under *Paritium.* — Chapman, 58.

H. Trionum, Linn. Beck, Bot. 58. Darling. Fl. Cestr. 396. Torrey, Fl. N. Y. 1. 115. Gray, Manual, 102.

H. pallidus, Raf.

H. Collinsianus. Nutt.; Torr. & Gray, Fl. 1. 237, in part. Eat. & Wr. 269. Dietr. 4. 833.

Abelmoschus Collinsianus. Gray, Genera, 2. 82. Wood, Cl.-Book, 271.

H. altheæfolius; Kosteletzkya altheæfolia.

clypeatus; Kosteletzkya Virginica.

Collinsianus; Manihot, Trionum.

H. Drummondii; Malvaviscus Drummondii.

Floridanus; Bancroftianus.

hastatus & *lævis;* militaris.

H. Moscheutos; Californicus.
pallidus; Trionum.
palustris; Moscheutos.
pentaspermus; Kosteletzkya Virginica.
Poeppigii; Bancroftianus.
riparius; militaris.

H. scaber; aculeatus.
smilacifolius; Kosteletzkya Virginica.
speciosus; coccineus.
trisectus; Jatropha urens.
truncatus; Bancroftianus.
Virginicus; militaris, Kosteletzyka Virginica.

INGENHOUZIA triloba. DC. Prodr. 1. 474.

Thurberia thespesioides. Gray, Pl. Thurb. 308 (Regensb. Flora, 38. 586). Torrey, Mex. Bound. 40, **t. 6.** Benth. & Hook. Genera, 1. 209 & 982. (Sonora.)

KOSTELETZKYA altheæfolia. Gray, Pl. Wright. 1. 23.

Hibiscus altheæfolius. Shuttlw. in herb.

K. Virginica, var. *altheæfolia.* Chapman, 57.

K. Coulteri. Gray, Pl. Wright. 1. 23. Walp. Ann. 4. 304. (Northern Mexico.)

K. digitata. Gray, Proc. Am. Acad. 8. 289.

K. paniculata. Benth. Pl. Hartw. 285. Torrey, Mex. Bound. 40. (Northern Mexico.)

K. Virginica. Gray, Genera, 2. 80, **t. 132**; Pl. Thurb. 302; Manual, 102. Chapman, 57. A. H. Smith, Proc. Acad. Philad. 1867, 18.

Hibiscus Virginicus. Linn. Spec. 697. Hill, Veg. Syst. 15, **t. 27, f. 4.** Jacq. Icon. Rar. 1. 14, **t. 142**; Obs. Bot. 1. 123. Lam. Dict. 3. 348. Willd. Spec. 3. 830. Michx. Fl. 2. 46. Persoon, 2. 257. Ait. f. Hort. Kew. 4. 230. Pursh, 456. Elliott, 2. 167. DC. Prodr. 1. 447. Torrey, Compend. 256; Fl. N. Y. 1. 114. Don, Mill. 1. 477. Beck, Bot. 57. Hook. Jour. Bot. 1. 197. Spach, Hist Veg. 3. 372. Audubon, Birds, **t. 425.** Torr. & Gray, Fl. 1. 236. Eat. & Wr. 269. Dietr. 4. 829.

Hibiscus clypeatus. Walter, 177.

? *Malva abutiloides.* Pursh, 454, not Linn. Elliott, 2. 164. Torr. & Gray, Fl. 1. 228. Eat. & Wr. 313.

Hibiscus pentaspermus. Nutt. in Am. Jour. Sci. 5. 298, not Bert.

Pavonia Virginica. Spreng. Syst. 3. 98.

Var. **smilacifolia.** Chapman, 57.

Hibiscus smilacifolius. Shuttlw. in herb.

K. smilacifolia. Gray, Pl. Wright. 1. 23.

LAVATERA assurgentiflora. Kellogg, Proc. Calif. Acad. 1. 11 & 14. Boland Cat. 7. Brew. & Wats. Bot. Calif. 1. 83.

L. insularis. Watson, Proc. Am. Acad. 12. 249.

L. occidentalis. Watson, l. c. 11. 113 & 124. Brew. & Wats. l. c. (Guadalupe Is.

L. venosa. Watson, l. c. 12. 249.

MALACHRA palmata. Moench, Meth. 615. DC. Prodr. 1. 441; Pl. Rar. Gen 4. 25, **t. 5.** Griseb. Fl. Brit. W. Ind. 81.

? *M. Mexicana.* Schrad. Sem. Hort. Goett. 1830 (Linn. Litt.-Ber. 1831, 73). Schlecht. in Linn. 11. 354. Gray, Genera, 2. 74, **t. 129.**

MALVA BOREALIS, Wallm. Gray, Genera, 2. 59. **t. 116, f. 5, 6** (fruit); Pl Fendl. 15 & 16. Torrey, Pac. R. Rep. 4. 71; Mex. Bound. 38. Newberry, Pac. R. Rep. 6. 68. Cooper, same, 12. 57.

M. obtusa. Torr. & Gray, Fl. 1. 225. Eat. & Wr. 313. Walp. Rep. 1. 204. Dietr. 4. 813.

M. MOSCHATA, Linn. Gray, Manual, 99.

M. ROTUNDIFOLIA, Linn. Pursh, 454. Bigel. Fl. Bost. 259. Elliott, 2. 163. Torrey, Compend. 255; Fl. N. Y. 1. 111. Hook. Fl. Bor.-Am. 1. 106; Journ. Bot. 1. 196. Beck, Bot. 57. Darling. Fl. Cestr. 395. Torr. & Gray, Fl. 1. 225. Eat. & Wr. 313. Gray, Genera, 2. 50, **t. 116**; Pl. Fendl. 15 & 16; Manual, 99. Chapman, 53. Coulter, Hayd. Rep. 1872, 762.

M. SYLVESTRIS, Linn. Beck, Bot. 57. Darling. Fl. Cestr. 394. Torrey, Fl. N. Y. 1. 112. Gray, Manual, 99.

M. abutiloides; Kosteletzkya Virginica.
Americana; Malvastrum tricuspidatum.
angustifolia; Sphæralcea angustifolia.
aurantiaca; Malvastrum Wrightii.
Californica; Sida hederacea.
Caroliniana; Modiola multifida.
coccinea & Creeana; Malvastrum coccineum.
digitata; Callirrhoe digitata.
eriocarpa; Modiola multifida.
fasciculata; Malvastrum Munroanum.
hederacea; Sida hederacea.
Houghtonii; Callirrhoe triangulata.
involucrata: Callirrhoe involucrata.
LeConte: Pavonia hastata.
Lindheimeriana; Malvastrum tricuspidatum.
lineariloba; Callirrhoe involucrata.

M. malachroides; Sidalcea malachroides.
Munroana; Malvastrum Munroanum.
nuttallioides; Callirrhoe Papaver.
obtusa; borealis.
ovata; Malvastrum spicatum.
Papaver; Callirrhoe Papaver.
pedata; Callirrhoe alcæoides & digitata.
plicata; Sida hederacea.
polystachya; Malvastrum spicatum.
prostrata; Modiola multifida.
rivularis; Sphæralcea rivularis.
spicata; Malvastrum spicatum.
stellata; Sphæralcea angustifolia.
subhastata; Malvastrum tricuspidatum.
triangulata; Callirrhoe triangulata.
tricuspidata; Malvastrum tricuspidatum.

MALVASTRUM angustum. Gray, Pl. Fendl. 22; Manual, 101. Walp. Ann. 2. 152. Chapman, 54.

Sida hispida. Pursh, 452. Elliott, 2. 159. DC. Prodr. 1. 472. Don, Mill. 1. 498. Hook. Jour. Bot. 1. 198. Torr. & Gray, Fl. 1. 232 & 681. Eat. & Wr. 425. Fisch. & Mey. Ind. Sem. Petr. 7. 55 (Linn. Litt.-Ber. 1840, 120; Ann. Sci. Nat. 2. 16. 58).

M. coccineum. Gray, Pl. Fendl. 21 & 24; Genera, 2. 60, **t. 121**; Pl. Wright. 1. 16 & 2. 20; Pac. R. Rep. 12. 41; Manual, 101. Walp. Ann. 2. 152. Engelm. Pl. Upp. Miss. 186. Torrey, Marcy's Rep. 281; Stansb. Rep. 384; Pac. R. Rep. 4. 71 & 7. 8; Mex. Bound. 38. Torr. & Gray, Pac. R. Rep. 2. 161. Pl. Bourgeau, 255. Porter, Hayd. Rep. 1870, 473; 1871, 479; Fl. Col. 16. Watson, King's Rep. 5. 47; Pl. Wheel. 6. Coulter, Hayd. Rep. 1872, 762. Rothr. Pl. Wheel. 35.

Malva coccinea. Nutt. Fras. Cat.; Genera, 2. 81. James, Long's Exped. 2. 140. Torrey, Ann. Lyc. N. Y. 2. 171. Engelm. Wisliz. Rep. 3.

Cristaria coccinea. Pursh, 454. Sims, Bot. Mag. **t. 1673.** Poir. Suppl. 5. 634. Baldwin, Cat. 337. Don, Mill. 1. 489. Nees, Pl. Wied. 5.

Sida coccinea. DC. Prodr. 1. 465. Spreng. Syst. 3. 121. Hook. Fl. Bor.-Am. 1. 108; Lond. Jour. Bot. 6. 77. Torr. & Gray, Fl. 1. 235. Eat. & Wr. 425. Torrey, Nicol. Rep. 147; Frem. Rep. 88; Emory's Rep. 138 & 407. Dietr. 4. 857.

Var. **grossulariæfolium.** Torrey, Stansb. Rep. 384. Gray, Pl. Wright. 1. 16. Durand, Fl. Utah, 160. Watson, King's Rep. 5. 47.

Malva Creeana. Graham in Bot. Mag. **t. 3698.** Paxton, Mag. Bot. 6. 55 & t. Walp. Rep. 1. 293.

Sida grossulariæfolia. Hook. & Arn. Bot. Beechey, 326. Torr. & Gray, Fl. 1. 682. Walp. Rep. 1. 316. Dietr. 4. 849.

Malvastrum grossulariæfolium. Gray, Pl. Fendl. 21.

Sphæralcea pedata. Torrey; Gray, Pl. Fendl. 23.

Var. **dissectum.** Gray, l. c. 24; Pl. Wright. 1. 17. Walp. Rep. 1. 316. Watson, Pl. Wheel. 6.

Sida dissecta. Nutt.; Torr. & Gray, Fl. 1. 235. Hook. & Arn. Bot. Beechey, 327. Eat. & Wr. 425. Walp. l. c. Dietr. 4. 849. Hook. Lond. Journ. Bot. 6. 77.

M. Coulteri. Watson, Proc. Am. Acad. 11. 125. Brew. & Wats. Bot. Calif. 1. 85.

M. exile. Gray, Ives' Rep. 8; Proc. Am. Acad. 7. 333. Brew. & Wats. l. c.

M. leptophyllum. Gray, Pl. Wright. 1. 17 & 2. 20; Pl. Thurb. 300. Walp Ann. 4. 299. Torrey, Mex. Bound. 38.

M. marrubioides. Dur. & Hilg. in Jour. Acad. Philad. 2. 3. 38; Pac. R. Rep. 5. 6, **t. 2.** Walp. Ann. 4. 300 & 7. 390. Boland. Cat. 7.

M. Munroanum. Gray, Pl. Fendl. 21; Ives's Rep. 8. Cooper, Pac. R. Rep. 12. 51. Torrey, Mex. Bound. 38; Bot. Wilkes, 254. Anderson, Cat. 118. Boland. Cat. 7. Watson, King's Rep. 5. 47; Pl. Wheel. 6. Porter, Hayd. Rep. 1871, 479. Coulter, same, 1872, 762.

Malva Munroana. Dougl.; Lindl. Bot. Reg. 16, **t. 1306.** Hook. Fl. Bor.-Am. 1. 106; Bot. Mag. **t. 3537.** Don, Mill. 1. 464. Maund, Bot. Gard. 10, **t. 473.** Paxton, Mag. Bot. 4. 264, & **t.** Torr. & Gray, Fl. 1. 226. Eat. & Wr. 313. Walp. Rep. 1. 294. Loud. Arbor. 4. 2538, **f. 2411.** Dietr. 4. 816. Torrey, Emory's Rep. 138. Burnett, Encyc. Pl. **t. 217.**

Nuttallia Munroana. Nutt. in Jour. Acad. Philad. 7. 16.

Sphæralcea Munroana. Spach, Hist. Veg. 3. 353.

M. rotundifolium. Gray, Proc. Am. Acad. 7. 333. Brew. & Wats. l. c. 85.

M. spicatum. Gray, Pl. Fendl. 22. Griseb. Fl. Brit. W. Ind. 72.

Malva spicata. Linn. Spec. 2 ed. 967. Cav. Diss. 1. 80, **t. 20, f. 4.**

Malva ovata. Cav. Diss. 1. 81, **t. 20, f. 2.**

Malva polystachya. Cav. Diss. 2. 281, **t. 138, f. 3.**

M. splendidum. Kellogg, Proc. Calif. Acad. 1. 65. Brew. & Wats. l. c.

M. Thurberi. Gray, Pl. Thurb. 307. Walp. Ann. 4. 299. Torrey, Mex. Bound 38. Brew. & Wats. l. c.

Malva fasciculata. Nutt.; Torr. & Gray, Fl. 1. 225. Eat. & Wr. 313. Walp. Rep. 1. 294. Dietr. 4. 817.

M. tricuspidatum. Gray, Pl. Wright. 1. 16; Bot. Wilkes' Expl. Exped. 1. 148, with syn. Griseb. Fl. Brit. W. Ind. 72, with syn. Chapman, 54. A. H. Smith. Proc. Acad. Philad. 1867, 18. Wood, Bot. & Fl. 61.

Malva Americana. Linn. Spec. 687. Cav. Diss. 1. 80, **t. 22, f. 2.** DC. Prodr. 1. 430.

Malva tricuspidata. Ait. f. Hort. Kew. 4. 210. DC. Prodr. 1. 430, with syn. Spreng. Syst. 3. 88.

Malva subhastata. Cav. Diss. 1. 72, **t. 21, f. 3.** DC. Prodr. 1. 430. St. Hil. Fl. Bras. 1. 214.

Sida spiræfolia. Willd. Enum. Suppl. 49. DC. Prodr. 1. 472.

Sida bracteolata & carpinoides. DC. Prodr. 1. 460 & 461.

? *Malope malacoides.* Walter, 176. Pursh, 455. Nutt. Genera, 2. 82. Elliott, 2. 164. Torr. & Gray, Fl. 1. 224.

Malvastrum carpinifolium. Gray, Pl. Lindh. 161; Pl. Fendl. 22.

Malva Lindheimeriana. Scheele in Linn. 21. 470.

Malvastrum (?) *Lindheimerianum.* Walp. Ann. 2. 153.

Malvastrum Americanum. Torrey, Mex. Bound. 38.

M. Wrightii. Gray, Pl. Lindh. 160; Pl. Fendl. 21; Genera, 2. 60 & 230, **t. 131.** Walp. Ann. 2. 152.

Malva aurantiaca. Scheele, Linn. 21. 469.

Malvastrum (?) *aurantiacum.* Walp. Ann. 2. 153.

M. Americanum; tricuspidatum.
aurantiacum; Wrightii.
carpinifolium; tricuspidatum.
Fremontii; Sphæralcea Lindheimeri.
grossulariæfolium; coccineum.
M. linearifolium; Sida fasciculata.
Lindheimerianum; tricuspidatum.
pedatifidum; Sphæralcea Fendleri.
Thurberi; Munroanum.

MALVAVISCUS Drummondii. Torr. & Gray, Fl. 1. 230. Eat. & Wr. 314. Engelm. & Gray, Pl. Lindh. 6. Gray, Genera, 2. 78, **t. 131**; Pl. Wright. 1. 22; Hall's Pl. Tex. 5. Torrey, Mex. Bound. 40. Wood, Cl.-Book, 269.

Pavonia Drummondii. Torr. & Gray, Fl. 1. 682. Walp. Rep. 1. 298. Dietr. 4. 824. Gray, Genera, 2. 76.

Hibiscus Drummondii. Young, Fl. Texas, 186.

MODIOLA multifida. Moench, Meth. 620. Torr. & Gray, Fl. 1. 229. Scheele, Röm. Texas, 434. Chapman, 56. A. H. Smith, Proc. Acad. Philad. 1867, 18. Gray, Manual, 102; Hall's Pl. Tex. 5.

Malva Caroliniana. Linn. Spec. 688. Cav. Diss. 1. 58, **t. 15, f. 1.** Hill, Veg. Syst. 16, **t. 3, f. 2.** Walter, 176. Lam. Dict. 3. 739. Ait. Hort. Kew. 2. 448. Willd. Spec. 3. 784; Enum. 731. Michx. Fl. 2. 44. Persoon, 2. 251. Pursh, 454. Elliott, 2. 163. DC. Prodr. 1. 435. Spreng. Syst. 3. 92. Hook. Jour. Bot. 1. 196. Dietr. 4. 817. Regel, Ind. Sem. Petr. 1860, 50.

Malva prostrata. Cav. Diss. 1. 58, **t. 16, f. 3.** DC. Prodr. 1. 436.

Malva eriocarpa. DC. Prodr. 1. 436.

Modiola Caroliniana. Don, Mill. 1. 466. Gray, Genera, 2. 72, **t. 128.** Griseb. Fl. Brit. W. Ind. 72.

NAPÆA dioica. Linn. Spec. 686. Hill, Veg. Syst. 15, **t. 50, f. 2.** Gray, Pl. Fendl. 20; Genera, 2. 56, **t. 119**; Manual, 100.

N. scabra. Linn. Mant. 2. 435. Ait. Hort. Kew. 3. 417. Lam. Dict. 4. 421; Ill. 3. 138, **t. 579, f. 2.** Persoon, 2. 242.

Sida dioica. Cav. Diss. 2. 278, **t. 132, f. 2.** Willd. Spec. 3. 766; Enum. 726. Ait. f. Hort. Kew. 4. 206. Pursh, 453. DC. Prodr. 1. 466. Torrey, Compend. 255. Spreng. Syst. 3. 122. Don, Mill. 1. 496. Beck, Bot. 58. Spach, Hist. Veg. 3. 400. Torr. & Gray, Fl. 1. 234 & 681. Eat. & Wr. 425. Dietr. 4. 849.

PAVONIA hastata. Cav. Diss. 1. 138, **t. 47, f. 2.** DC. Prodr. 1. 443. Spreng. Syst. 3. 98. Reich. Hort. Bot. 3. 11, **t. 227.**

P. Le Contei. Torr. & Gray; Gray, Pl. Fendl. 16; Genera, 2. 76. Wood, Bot. & Fl. 62.

Malva Le Contei. Buckley, Am. Jour. Sci. 45. 176.

Pavonia Jonesii. Feay; Wood, Cl.-Book, 269.

P. lasiopetala. Scheele, Linn. 21. 470.

P. Wrightii. Gray, Genera, 2. 76 & 230, **t. 130**; Pl. Lindh. 161; Pl. Wright. 1. 22 & 2. 24. Torrey, Mex. Bound. 39.

SIDA carpinifolia. Linn. f. Suppl. 307. Cav. Diss. 1. 21, **t. 2, f. 3** & **t. 134, f. 1.** Jacq. Icon. Rar. 1, **t. 135.** DC. Prodr. 1. 461. Griseb. Fl. Brit. W. Ind. 73, with syn. See syn. also in Gray, Bot. Wilkes' Expl. Exped. 1. 159; Masters, Hook. Fl. Brit. Ind. 1. 323; and Oliver, Fl. Trop. Afr. 1. 180.

Var. **brevicuspidata.** Griseb. l. c.

S. acuta. Burm. Fl. Ind. 147. Gray, Pl. Wright. 1. 19; Bot. Wilkes' Expl. Exped. 1. 159, keeping it distinct.

S. stipulata. Cav. Diss. 1. 22, **t. 3, f. 10.** A. H. Smith, Proc. Acad. Philad. 1867, 18. Wood, Bot. & Fl. 61.

S. glabra. Nutt. in Jour. Acad. Philad. 7. 90. Torr. & Gray, Fl. 1. 232. Eat. & Wr. 425. Walp. Rep. 1. 316. Dietr. 4. 842.

S. ciliaris. Linn. Spec. 2 ed. 961. Cav. Diss. 1. 21, **t. 3, f. 9** & **t. 127, f. 2.** DC. Prodr. 1. 461. Chapman, 55. Griseb. Fl. W. Ind. 73. Wood, Bot. & Fl. 61.

S. involucrata. Richard, Fl. Cub. 162.

S. cuneifolia. Gray, Pl. Lindh. 105; Pl. Wright. 1. 18. Walp. Ann. 2. 155.

S. Elliottii. Torr. & Gray, Fl. 1. 231 & 681. Walp. Rep. 1. 315. Dietr. 4. 842. Gray, Pl. Wright. 2. 21; Manual, 101. Torrey, Mex. Bound. 39. Chapman, 55.

S. gracilis. Elliott, 2. 159, not Rich. Eat. & Wr. 425.

S. fasciculata. Torr. & Gray, Fl. 1. 231. Eat. & Wr. 425. Walp. Rep. 1. 315. Dietr. 4. 842. Gray, Pl. Lindh. 163.

S. anomala, var. *Mexicana.* Moric. Pl. Nouv. 36, **t. 24.**

Malvastrum linearifolium. Buckl. in Proc. Acad. Philad. 1861, 449; fide Gray in same, 1862, 161.

S. filiformis. Moric. Pl. Nouv. 38, **t. 25.** Walp. Rep. 1. 321. Seem. Bot. Herald, 271.

? *S. diffusa.* HBK. Nov. Gen. 5. 257. DC. Prodr. 1. 463.

S. filicaulis. Torr. & Gray, Fl. 1. 232. Eat. & Wr. 425. Walp. Rep. 1. 316. Dietr. 4. 844. Gray, Pl. Lindh. 163; Pl. Wright. 2. 22; Hall's Pl. Tex. 5. Torrey, Mex. Bound. 38. Young, Fl. Texas, 183.

S. filipes. Gray, Pl. Lindh. 164; Pl. Wright. 1. 19. Walp. Ann. 2. 155. Torrey, Mex. Bound. 38.

? *S. venusta.* Schlecht. in Linn. 11. 365.

S. hederacea. Torrey; Gray, Pl. Fendl. 23; Pl. Wright. 1. 18 & 2. 21; Ives's Rep. 8. Torrey, Pac. R. Rep. 5. 360; Mex. Bound. 38; Bot. Wilkes, 256. Watson, King's Rep. 5. 48; Pl. Wheel. 7.

Malva hederacea. Dougl.; Hook. Fl. Bor.-Am. 1. 107. Torr. & Gray, Fl. 1. 227. Eat. & Wr. 313. Walp. Rep. 1. 292. Dietr. 4. 812. Newberry, Pac. R. Rep. 6. 68.

Malva Californica. Presl, Rel. Haenk. 2. 121. Walp. Rep. 1. 295. Dietr. 4. 813.

Malva plicata. Nutt.; Torr. & Gray, Fl. 1. 227. Eat. & Wr. 213.

Sida (?) obliqua. Nutt.; Torr. & Gray, Fl. 1. 233 & 681. Eat. & Wr. 425. Walp. Rep. 1. 316. Dietr. 4. 845.

S. lepidota. Gray, Pl. Wright. 1. 18 & 2. 21. Torrey, Pac. R. Rep. 4. 72; Mex. Bound. 39. Walp. Ann. 4. 311.

S. Lindheimeri. Engelm. & Gray, Pl. Lindh. 5 & 31. Walp. Ann. 2. 154. Chapman, 55. Gray, Hall's Pl. Tex. 5.

S. longipes. Gray, Pl. Wright. 1. 19 & 2. 21. Walp. Ann. 4. 311. Torrey, Mex. Bound. 39.

S. Napæa. Cav. Diss. 2. 277, **t. 132, f. 1.** Willd. Spec. 3. 766; Enum. 726. Ait. f. Hort. Kew. 4. 206. Pursh, 453. Sims, Bot. Mag. **t. 2193.** DC. Prodr. 1. 466. Torrey, Compend. 255. Spreng. Syst. 3. 122. Don, Mill. 1. 496. Beck, Bot. 58. Spach, Hist. Veg. 3. 399. Torr. & Gray, Fl. 1. 233. Eat. & Wr. 425. Dietr. 4. 849. Gray, Pl. Fendl. 23; Pl. Wright. 1. 20; Manual, 101.

Napæa hermaphrodita. Linn. Spec. 686. Hill, Veg. Syst. 15, **t. 50, f. 1.** St. Hil. Fam. Nat. 2. 61. Barton, Elem. Bot. Appx. 29, **t. 20.**

Napæa lævis. Linn. Mant. 2. 435. Ait. Hort. Kew. 3. 417. Lam. Ill. 3. 138, **t. 579, f. 1.** Poir. in Lam. Dict. 4. 420. Persoon, 2. 242.

Althæa ricinifolia. Herm. Hort. Lugd. 22, **t. 23.**

S. physocalyx. Gray, Pl. Lindh. 163; Pl. Wright. 1. 20 & 2. 22; Hall's Pl. Tex. 5. Walp. Ann. 2. 155. Torrey, Mex. Bound. 39.

S. rhombifolia. Linn. Spec. 684. See syn. in Gray, Bot. Wilkes' Expl. Exped. 1. 158; Griseb. Fl. Brit. W. Ind. 74; Masters, Hook. Fl. Brit. Ind. 1. 323. — Cav. Diss. 1. 23, **t. 3, f. 12.** Michx. Fl. 2. 43. Pursh, 462. Elliott, 2. 160. HBK. Nov. Gen. 5. 261. DC. Prodr. 1. 462. Don, Mill. 1. 492. Hook. Jour. Bot. 1. 198. Torr. & Gray, Fl. 1. 232. Eat. & Wr. 425. C. A. Meyer, Ind. Sem. Petr. 9. 87 (Linn. 18. 196). Chapman, 55. Wood, Cl.-Book, 268; Bot. & Fl. 61.

S. stipulata. Chapman, 55, not Cav.

S. Elliottii, var. (?) Gray, Proc. Am. Acad. 5. 154.

Var. **retusa.** Griseb. Fl. Brit. W. Ind. 75.

S. retusa, Linn. Cav. Diss. 1. 18, **t. 3, f. 4,** & **t. 131, f. 2.**

S. spinosa. Linn. Spec. 683. See syn. in Griseb. l. c. 74; Masters, Hook. Fl. Brit. Ind. 1. 323. — Walter, 176. Cav. Diss. 1. 11, **t. 1, f. 9.** Michx. Fl. 2. 43. Pursh, 452. Elliott, 2. 161. DC. Prodr. 1. 460. Torrey, Compend. 254; Fl. N. Y. 1. 113; Pac. R. Rep. 4. 72. Beck, Bot. 58. Hook. Jour. Bot. 1. 198. Darling. Fl. Cestr. 397. Torr. & Gray, Fl. 1. 231. Eat. & Wr. 424. C. A. Meyer, Ind. Sem. Petr. 9. 87 (Linn. 18. 196). Gray, Pl. Fendl. 23; Genera, 2. 62, **t. 123**; Manual, 101. Chapman, 54.

Var. **angustifolia.** Griseb. l. c. 74.

S. angustifolia. Lam. Dict. 1. 4. Medicus, Bot. Beobacht. 1783, 192. Cav. Diss. 1. 14, **t. 2, f. 2.** DC. Prodr. 1. 459. Gray, Pl. Wright. 1. 19 & 2. 21.

S. heterocarpa. Engelm.; Gray, Pl. Lindh. 163. Walp. Ann. 2. 154.

S. supina. L'Her. Stirp. **t. 52.** See syn. in Griseb. Fl. Brit. W. Ind. 75. — Chapman, 54.

S. pilosa & *ovata.* Cav. Diss. **t. 1, f. 8** & **t. 196, f. 2.**

S. tragiæfolia. Gray, Pl. Lindh. 164. Walp. Ann. 2. 155.

S. abutiloides; Abutilon Jacquini.
Abutilon; Abutilon Avicennæ.
acuta; carpinifolia.
alcæoides; Callirrhoe alcæoides.
amplexicaulis; Abutilon crispum.
angustifolia; spinosa.
anomala; fasciculata.
bracteolata; Malvastrum tricuspidatum.
S. Californica; Sidalcea humilis.
carpinoides; Malvastrum tricuspidatum.
coccinea; Malvastrum coccineum.
crassifolia; Abutilon Jacquini.
crispa; Abutilon crispum.
cristata; Anoda cristata.
delphinifolia; Sidalcea humilis.
diffusa; filiformis.

S. dioica; Napæa dioica.
diploscypha; Sidalcea diploscypha.
dissecta; Malvastrum coccineum.
Elliottii; rhombifolia.
filicaulis; filiformis.
glabra; carpinifolia.
gracilis; Elliottii.
grossulariæfolia; Malvastrum coccineum.
hastata; Anoda hastata.
heterocarpa; spinosa.
hispida; Malvastrum angustum.
Hulseana; Abutilon pedunculare.
imberbis; Abutilon pedunculare.
involucrata; ciliaris.
lignosa; Abutilon Jacquini.
malvæflora; Sidalcea humilis & malvæflora.
S. macrorhiza; Callirrhoe alcæoides.
obliqua; hederacea.
Oregana; Sidalcea malvæflora.
ovata; supina.
parviflora; Anoda parviflora.
peduncularis; Abutilon pedunculare.
peraffinis & *periplocifolia;* Abutilon Jacquini.
permollis; Abutilon permolle.
pilosa; supina.
retusa; rhombifolia.
Sabeana; Melochia pyramidata.
spirlæfolia; Malvastrum tricuspidatum.
stellata; Sphæralcea angustifolia.
stipulata; carpinifolia, rhombifolia.
tricuspidata; Abutilon Jacquini.
venusta; filipes.

SIDALCEA candida. Gray, Pl. Fendl. 20 & 24; Genera, 2. 58, **t. 120, f. 9** (flower); Proc. Acad. Philad. 1863, 59. Walp. Ann. 2. 151. Torr. & Gray, Pac. R. Rep. 2. 126, **t. 2.** Watson, King's Rep. 5. 46. Porter, Fl. Col. 16.

S. diploscypha. Gray, Pl. Fendl. 19; Genera, 2. 58, **t. 120, f. 1–8.** Benth. Pl. Hartw. 300. Torrey, Pac. R. Rep. 4. 71. Kellogg, Proc. Calif. Acad. 1. 53. Boland. Cat. 7.

Sida diploscypha. Torr. & Gray, Fl. 1. 234 & 682. Hook. & Arn. Bot. Beechey, 326, **t. 76.** Eat. & Wr. 425. Walp. Rep. 1. 316. Dietr. 4. 849.

S. Hartwegi. Gray, Pl. Fendl. 20. Benth. Pl. Hartw. 300. Walp. Ann. 2. 151. Durand, Pl. Pratten. 84. Torrey, Pac. R. Rep. 4. 72. Newberry, same, 6. 68.

S. delphinifolia. Gray, Pl. Fendl. 19; Genera, 2. 58, **t. 120, f. 10–12.** Benth. Pl. Hartw. 300.

S. hirsuta. Gray, Pl. Wright. 1. 16. Torrey, Pac. R. Rep. 4. 72. Newberry, same, 6. 68. Walp. Ann. 4. 309.

S. humilis. Gray, Pl. Fendl. 20. Walp. Ann. 2. 151. Torrey, Pac. R. Rep. 4. 72 & 7. 8. Brew. & Wats. Bot. Calif. 1. 84.

Sida delphinifolia. Nutt.; Torr. & Gray, Fl. 1. 235. Eat. & Wr. 425. Walp. Rep. 1. 316. Dietr. 4. 849.

? *Sida Californica.* Nutt.; Torr. & Gray, Fl. 1. 233. Eat. & Wr. 425. Walp. Rep. 1. 316.

Sida malvæflora. Hook. & Arn. Bot. Beechey, 326.

? *Sidalcea Californica.* Gray, Pl. Fendl. 19.

S. malachroides. Gray, Proc. Am. Acad. 7. 332.

Malva malachroides. Hook. & Arn. Bot. Beechey, 326. Torr. & Gray, Fl. 1. 681. Walp. Rep. 1. 294. Dietr. 4. 813. Gray, Pl. Fendl. 16.

S. malvæflora. Gray, Pl. Wright. 1. 16 & 2. 20; Pl. Thurb. 301; Proc. Bost. Soc. Nat. Hist. 7. 146; Proc. Acad. Philad. 1863, 59; Proc. Am. Acad. 8. 378. Benth. Pl. Hartw. 300. Torrey, Sitgr. Rep. 156; Stansb. Rep. 384; Pac. R. Rep. 4. 72 & 7. 8; Mex. Bound. 38; Bot. Wilkes, 253. Durand, Fl. Utah, 160. Torr. & Gray, Pac. R. Rep. 2. 119 & 126. Durand & Hilg. same, 5. 6. Newberry, same, 6. 68. Cooper, same, 12. 51 & 57. Walp. Ann. 4. 309. Anderson, Cat. 118. Boland. Cat.

7. Porter, Hayd. Rep. 1870, 473; Fl. Col. 15. Watson, King's Rep. 5. 46; Pl. Wheel. 6. Coulter, Hayd. Rep. 1872, 762. Rothr. Pl. Wheel. 35.

Sida malvæflora. DC. Prodr. 1. 474; Moc. & Sessé, Fl. Mex. **t. 70.** Lindl. Bot. Reg. 12, **t. 1036.** Maund, Bot. Gard. 5, **t. 237.** Hook. Fl. Bor.-Am. 1. 108; Lond. Jour. Bot. 6. 77. Don, Mill. 1. 496. Spach, Hist. Veg. 3. 400. Torr. & Gray, Fl. 1. 234. Hook. & Arn. Bot. Beechey, 136. Eat. & Wr. 425. Benth. Bot. Sulph. 8. Dietr. 4. 849.

Nuttallia malvæflora. Fisch. & Trautv. Ind. Sem. Petr. 3. 41 (Linn. Litt.-Ber. 1838, 101). Paxton, Mag. Bot. 7. 31 & **t.**

Sida Oregana. Nutt.; Torr. & Gray, Fl. 1. 234. Eat. & Wr. 425. Walp. Rep. 1. 316. Dietr. 4. 849.

Sidalcea Oregana. Gray, Pl. Fendl. 20.

Sidalcea Neo-Mexicana. Gray, Pl. Fendl. 20 & 23. Walp. Ann. 2. 151.

Callirrhoe spicata. Regel, Gart. Fl. 1872, 291, **t. 737**; Trud. Petr. 2. 309.

SPHÆRALCEA angustifolia. Spach, Hist. Veg. 3. 353. Benth. Pl. Hartw. 7. Gray, Pl. Fendl. 22; Pl. Wright. 1. 21. Torr. & Gray, Pac. R. Rep. 2. 126 & 161. Torrey, same, 4. 72 & 7. 8; Mex. Bound. 39. Watson, King's Rep. 5. 417. Porter, Fl. Col. 16.

Malva angustifolia. Cav. Diss. 1. 64, **t. 20, f. 3**; Icon. 1, **t. 68.** Ait. Hort. Kew. 2. 447. Willd. Spec. 3. 777. DC. Prodr. 1. 435. Spreng. Syst. 3. 87. Hook. Bot. Mag. **t. 2839.** Maund, Bot. Gard. 11, **t. 517.**

Sphæroma angustifolium. Schlecht. in Linn. 11. 353.

Sida stellata. Torrey, Ann. Lyc. N. Y. 2. 171. Don, Mill. 1. 490. Dietr. 4. 841.

Sphæralcea stellata. Torr. & Gray, Fl. 1. 228. Eat. & Wr. 440. Walp. Rep. 1. 296. Torrey, Emory's Rep. 138 & 407.

Malva stellata. Dietr. 4. 816.

Var. **lobata.**

S. incana, var. *oblongifolia.* Gray, Pl. Wright. 2. 21; Ives's Rep. 8. Torrey, Sitgr. Rep. 156; Pac. R. Rep. 4. 72. Watson, King's Rep. 5. 48 & 417.

S. Emoryi. Torrey; Gray, Pl. Fendl. 23; Pl. Wright. 1. 21; Ives' Rep. 8. Walp. Ann. 4. 301. Watson, King's Rep. 5. 48; Pl. Wheel. 6. Brandegee, Fl. S. W. Col. 334. Brew. & Wats. Bot. Calif. 1. 86.

S. incana. Torrey; Gray, Pl. Fendl. 23; Pl. Wright. 1. 21; Proc. Am. Acad. 5. 154. Torrey, Pac. R. Rep. 5. 359 & 7. 8; Mex. Bound. 39. Watson, King's Rep. 5. 48 & 417. Rothr. Pl. Wheel. 35.

S. Wrightii. Gray, Pl. Wright. 2. 21. Walp. Ann. 4. 301.

S. Fendleri. Gray, Pl. Wright. 1. 21 & 2. 21. Torr. & Gray, Pac. R. Rep. 2. 161. Torrey, same, 7. 8; Mex. Bound. 39. Walp. Ann. 4. 302.

S. miniata. Gray, Genera, 2. 70, **t. 127**, not Spach; Pl. Fendl. 19, excl. syn.

S. incana, var. *Fendleri.* Watson, Pl. Wheel. 7.

Var. **dissecta.**

Malvastrum pedatifidum. Gray, Pl. Lindh. 160; Pl. Wright. 1. 17 & 2. 20. Walp. Ann. 2. 152. Torrey, Mex. Bound. 38.

S. incana, var. *dissecta.* Gray, Pl. Wright. 1. 21 & 2. 21. Torrey, Pac. R. Rep. 7. 8; Mex. Bound. 39. Watson, King's Rep. 5. 47.

Sidalcea Atacosa. Buckl. in Proc. Acad. Philad. 1864, 449; fide Gray in same, 1862, 161.

S. hastulata. Gray, Pl. Wright. 1. 17 & 2. 21. Torr. & Gray, Pac. R. Rep. 2. 161. Walp. Ann. 4. 301. Torrey, Mex. Bound. 39.

S. longisepala. Torrey, Bot. Wilkes, 255.

S. Lindheimeri. Gray, Pl. Lindh. 162. Walp. Ann. 2. 140. Watson, King's Rep. 5. 47.

Malvastrum Fremontii. Torrey; Gray, Pl. Fendl. 21. Walp. Ann. 2. 152.

S. rivularis. Torrey; Gray, Pl. Fendl. 23. Torrey, Bot. Wilkes, 255.

Malva rivularis. Dougl.; Hook. Fl. Bor.-Am. 1. 107; Lond. Jour. Bot. 6. 76. Torr. & Gray, Fl. 1. 226. Eat. & Wr. 313. Walp. Rep. 1. 294. Dietr. 4. 817.

S. acerifolia. Nutt.; Torr. & Gray, Fl. 1. 228. Eat. & Wr. 440. Walp. Rep. 1. 296. Hook. Bot. Mag. **t. 5404.** Porter, Hayd. Rep. 1870, 474; 1871, 479. Watson, King's Rep. 5. 48; Pl. Wheel. 7. Coulter, Hayd. Rep. 1872, 762. Gray, Am. Jour. Sci. 3. 7. 239.

WISSADULA mucronulata. Gray; Torrey, Mex. Bound. 39.

Abutilon mucronulatum. Gray, Proc. Am. Acad. 5. 175.

STERCULIACEÆ.

AYENIA microphylla. Gray, Pl. Wright. 1. 24 & 2. 24. Walp. Ann. 4. 323. Torrey, Mex. Bound. 40.

A. pusilla. Linn. Spec. 2 ed. 1354. Sloan, Hist. Jam. **t. 132, f. 2.** Cav. Diss. 2. 289, **t. 147.** DC. Prodr. 1. 488. Gray, Pl. Wright. 1. 24 & 2. 24. Griseb. Fl. Brit. W. Ind. 92. Torrey, Mex. Bound. 40. Chapman, 59.

FREMONTIA Californica. Torrey, Pl. Frem. 5, **t. 2** (Regensb. Flora, 36. 704); Proc. Am. Assoc. 4. 191; Pac. R. Rep. 4. 15 & 71. Newberry, same, 6. 68. Walp. Ann. 4. 319. Gray, Proc. Bost. Soc. Nat. Hist. 7. 146. Benth. & Hook. Genera, 1. 212 & 982. Hook. f. Bot. Mag. **t. 5591.** Lemaire, Ill. Hort. 13, **t. 496.** Carrière, Rev. Hort. 1867, 91 & **t.** Masters, Gard. Chron. 1869 (Seem. Jour. Bot. 7. 297). Boland. Cat. 7. Garden, 1873, 54 & **t.**

Cheirostemon (?) Californicus. Benth. & Hook. Genera, 1. 212.

Cheiranthodendron Californicum. Baill. Hist. Pl. 4. 70.

HERMANNIA Texana. Gray, Pl. Lindh. 165; Genera, 2. 88, **t. 135**; Pl. Wright. 1. 24 & 2. 24. Torrey, Mex. Bound. 40.

MELOCHIA pyramidata. Linn. Spec. 674. Cav. Diss. 2. 319, **t. 172, f. 1.** DC. Prodr. 1. 490. Torr. & Gray, Fl. 1. 683. Gray, Pl. Lindh. 165; Genera, 2. 86, **t. 134**; Pl. Wright. 1. 24 & 2. 24. Griseb. Fl. Brit. W. Ind. 93. Torrey, Mex. Bound. 40. Young, Fl. Texas, 187.

Sida Sabeana. Buckl. in Proc. Acad. Philad. 1861, 449; fide Gray in same, 1862, 161.

M. tomentosa. Linn. Spec. 2 ed. 932. Cav. Diss. 2. 319, **t. 172, f. 2.** DC. Prodr. 1. 490. Benth. Bot. Sulph. 8. Griseb. Fl. Brit. W. Ind. 93. Torrey, Mex. Bound. 40. Gray, Proc. Am. Acad. 5. 155.

M. frutescens. Jacq. Obs. 2, **t. 44.**

WALTHERIA Americana. Linn. Spec. 673. See Griseb. Fl. Brit. W. Ind. 95; Gray, Bot. Wilkes' Expl. Exped. 1. 189; Masters, Hook. Fl. Brit. Ind. 1. 374, under *W. Indica.*—DC. Prodr. 1. 492. Chapman, 59.

W. arborescens, elliptica, microphylla & ovata. Cav. Diss. 2. 316, **t. 170, 171.** DC. Prodr. 1. 493.

W. detonsa. Gray, Pl. Wright. 2. 24. Walp. Ann. 4. 323. Torr. Mex. Bound. 40.

TILIACEÆ.

CORCHORUS pilolobus. Link, Enum. 2. 72. DC. Prodr. 1. 504. Don, Mill. 1. 542. Gray, Pl. Wright. 1. 24. Torrey, Mex. Bound. 40. Young, Fl. Texas, 188.

C. lasiolobus. Spreng. Syst. 2. 583.

C. siliquosus. Torr. & Gray, Fl. 1. 239, not Linn. Eat. & Wr. 207. Gray, Genera, 2. 94, **t. 137.**

C. siliquosus. Linn. Spec. 529. Hill, Veg. Syst. 14, **t. 23, f. 1.** DC. Prodr. 1. 504. Hook. Jour. Bot. 1. 198. Gray, Pl. Wright. 1. 24. Griseb. Fl. Brit. W. Ind. 97. Chapman, 60. Wood, Cl.-Book, 272; Bot. & Fl. 64. Young, Fl. Texas, 188.

TILIA Americana. Linn. Spec. 514. Marsh. Arbust. 153. Ait. Hort. Kew. 2. 229. Willd. Spec. 2. 1261. Persoon, 2. 66. Michx. f. Arbr. Amer. 3. 311, **t. 1.** Eigel. Fl. Bost. 214. James, Long's Exped. 1. 63. Torrey, Compend. 214; Fl. N. Y. 1. 116. Torr. & Gray, Fl. 1. 239. Loud. Arbor. 1. 373, **t. 22.** Emerson, Mass. Trees, 511. Gray, Genera, 2. 92, **t. 136**; Struct. Bot. 399, **f. 742–747**; Manual, 103; Hall's Pl. Tex. 5. Engelm. Pl. Upp. Miss. 186. Curtis, Bot. N. Car. 79. Chapman, 59. Lesqx. Fl. Ark. 352. Pl. Bourgeau, 255.

T. glabra. Vent. Monog. Til. 9, **t. 2** (Kön. Ann. Bot. 1. 212). Nouv. Duham. 1. 228. Poir. Dict. 7. 681. Pursh, 362. Nutt. Genera, 2. 3. James, Long's Exped. 1. 317. DC. Prodr. 1. 513. Elliott, 2. 2. Guimp. Otto & Hayne, **t. 44.** Hook. Fl. Bor.-Am. 1. 108. Don, Mill. 1. 553. Beck, Bot. 59. Darling. Fl. Cestr. 312. Eat. & Wr. 452. Dietr. 3. 237. Richards. Arct. Exped. 422.

T. Canadensis. Michx. Fl. 2. 306. Persoon, 2. 66. Poir. Dict. 7. 683.

T. nigra, Borck., & *neglecta.* Spach, Ann. Sci. Nat. 2. 2. 340, **t. 15**; Hist. Veg. 4. 27 & 29. Walp. Rep. 1. 359.

Var. **pubescens.** Loud. Arbor. 1. 374, **t. 23, 24.** Gray, Manual, 103; Hall's Pl. Tex. 5.

T. Caroliniana, Mill. Marsh. Arbust. 154.

T. Americana. Walter, 153.

T. pubescens. Ait. Hort. Kew. 2. 229. Willd. Spec. 2. 1162. Vent. Monog. Til. 10, **t. 3** (Kön. Ann. Bot. 1. 213). Nouv. Duham. 1. 228, **t. 51.** Persoon, 2. 66. Michx. f. Arbr. Amer. 3. 317, **t. 3.** Pursh, 363. DC. Prodr. 1. 513. Elliott, 2. 3. Torrey, Compend. 215. Don, Mill. 1. 553. Beck, Bot. 59. Eat. & Wr. 452. Dietr. 3. 237. Curtis, Bot. N. Car. 79. Chapman, 59.

T. laxiflora. Michx. Fl. 2. 306. Poir. Dict. 7. 683. Persoon, 2. 66. DC. Prodr. 1. 513. Torrey, Compend. 215. Don, Mill. 1. 553. Beck, Bot. 59. Spach, Ann. Sci. Nat. 2. 2. 343, **t. 15**; Hist. Veg. 4. 32. Dietr. 3. 237.

T. Mississippiensis. Bosc, Hort. Par.

T. truncata. Spach, ll. cc. 342 & 30. Dietr. 3. 237.

T. Americana, var. *Walteri.* Wood, Cl.-Book, 272.

T. heterophylla. Vent. Monog. Til. 16, **t. 5** (Kön. Ann. Bot. 1. 216). Nouv. Duham. 1. 229. Poir. Dict. 7. 683. Pursh, 363. DC. Prodr. 1. 513. Don, Mill. 1. 553. Spach, Ann. Sci. Nat. 2. 2. 345; Hist. Veg. 4. 34. Torr. & Gray, Fl. 1. 239. Eat. & Wr. 452. Walp. Rep. 1. 359. Nutt. Sylva, 1. 90, **t. 23.** Dietr. 3. 237. Curtis, Bot. N. Car. 79. Chapman, 60. Gray, Manual, 103.

T. alba. Michx. f. Arbr. Amer. 3. 315, **t. 2.** Eat. & Wr. 452.

T. laxiflora. Pursh, 363, not Michx. Elliott, 2. 2.

T. Americana, var. *heterophylla.* Loud. Arbor. 1. 375, **t. 23.**

TRIUMFETTA SEMITRILOBA, Linn. Chapman, Coult. Bot. Gaz. 3. 3.

LINACEÆ.

LINUM adenophyllum. Gray, Proc. Am. Acad. 8. 624.

L. aristatum. Engelm. in Wisliz. Rep. 17; Gray, Pl. Wright. 1. 25 & 26. Gray Pl. Wright. 2. 25; Ives's Rep. 8. Walp. Ann. 3. 830.

L. Berlandieri. Hook. Bot. Mag. **t. 3480**, as *L. Berendieri.* Dietr. 2. 1025. Engelm. & Gray, Pl. Lindh. 5. Gray, Pl. Lindh. 156; Pl. Fendl. 25; Genera, 2. 108 **t. 143, f. 11-14**; Pl. Wright. 1. 25; Hall's Pl. Tex. 5. Planch. Rev. Lin. in Lond Jour. Bot. 7. 47 (Walp. Ann. 2. 120). Scheele in Linn. 21. 596; Röm. Texas, 43 Torrey, Marcy's Rep. 281; Mex. Bound. 40. Engelm. in Gray, Pl. Wright. 1. 2 Durand, Fl. Utah, 160. Pl. Bourgeau, 255.

L. rigidum, var. (?) *Berlandieri.* Torr. & Gray, Fl. 1. 204. Walp. Rep 1. 289

L. annuum. Nees, Pl. Wied, 5; Bot. Zeit. 2. 547.

L. Breweri. Gray, Proc. Calif. Acad. 1. 202; Proc. Am. Acad. 6. 521. Boland Cat. 7.

L. Californicum. Benth. Pl. Hartw. 299. Walp. Ann. 2. 121. Torrey, Pac. R Rep. 4. 72. Newberry, same, 6. 68. Gray, Proc. Am. Acad. 6. 521.

L. congestum. Gray, Proc. Am. Acad. 6. 521. Boland. Cat. 7.

L. digynum. Gray, Proc. Am. Acad. 7. 334.

L. Greggii. Engelm. in Gray, Pl. Wright. 1. 26. Walp. Ann. 4. 296. (Northern Mexico.)

L. Kingii. Watson, King's Rep. 5. 49. Porter, Hayd. Rep. 1870, 474. Coulter same, 1872, 763.

L. micranthum. Gray, Proc. Am. Acad. 7. 333.

L. multicaule. Hook.; Torr. & Gray, Fl. 1. 678; Pac. R. Rep. 2. 161. Walp Rep. 1. 280. Gray, Pl. Lindh. 155; Pl. Wright. 1. 27; Hall's Pl. Tex. 5. Planch in Lond. Jour. Bot. 7. 185 (Walp. Ann. 2. 119). Engelm. in Gray, Pl. Wright. 1. 2 Torrey, Mex. Bound. 40.

L. selaginoides. Torr. & Gray, Fl. 1. 205, not Lam. Eat. & Wr. 302.

L. hudsonioides. Planch. l. c. 7. 186 (Walp. Ann. 2. 120). Gray, Pl. Lindh. 15

L. perenne. Linn. Spec. 277. See syn. in Ledeb. Fl. Ross. 1. 426; Planch. Rev Lin. in Lond. Jour. Bot. 7. 174 (Walp. Ann. 2. 116). — Nutt. Genera, 1. 206; Jour Acad. Philad. 7. 16. Richards. Frankl. Journ. 7. Hook. Fl. Bor.-Am. 1. 10 Torr. & Gray, Fl. 1. 204; Pac. R. Rep. 2. 161. Torrey, Nicol. Rep. 146; Fr Rep. 88; Sitgr. Rep. 156; Pac. R. Rep. 4. 72 & 7. 8; Mex. Bound. 40; Bot. Wilkes 251. Engelm. in Wisliz. Rep. 5; Gray, Pl. Wright. 1. 25; Pl. Upp. Miss. 18 Gray, Genera, 2. 108, **t. 143, f. 9, 10**; Pl. Fendl. 25; Pl. Wright. 1. 25 & 2. 25; P R. Rep. 12. 41; Ives's Rep. 8; Proc. Acad. Philad. 1863, 59; Hall's Pl. Tex. Seem. Jour. Bot. 51. Newberry, Pac. R. Rep. 6. 68. Hook. f. in Jour. Linn. S 1. 121; Arct. Pl. 288. Durand, Fl. Utah, 160. Wood, Cl.-Book, 276. Rot Alask. 444; Pl. Wheel. 35. Boland. Cat. 7. Anderson, Cat. 118. Porter, Hay Rep. 1870, 474; 1871, 479; Fl. Col. 16. Watson, King's Rep. 5. 49; Pl. Wheel. Coulter, Hayd. Rep. 1872, 762.

L. Lewisii. Pursh, 210. Poir. Suppl. 5. 720. Bradbury, Cat. 336. Röm Schult. Syst. 6. 746. James, Cat. 178; Long's Exp. 2. 343. Barton, Fl. N. Ar 1. 30, **t. 8**. Spreng. Syst. 1. 962. Torrey, Ann. Lyc. N. Y. 2. 171. Don, Mil 1. 453. Nees, Pl. Wied, 5. Darwin, Jour. Linn. Soc. 7. 82. Alefeld, Bot. Zei 25. 260.

L. Sibiricum, var. *Lewisii*. Lindl. Bot. Reg. 14, **t. 1163.**
L. perenne, var. *Lewisii*. Eat. & Wr. 302. Planch. ll. cc. 175 (117).
L. decurrens. Kellogg, Proc. Calif. Acad. 3. 44, **f. 11.**
L. Lyallanum. Alefeld, Bot. Zeit. 25. 251.

L. rigidum. Pursh, 210. Poir. Suppl. 5. 720. Bradbury, Cat. 336. Nutt. Genera, 1. 206. Röm. & Schult. Syst. 6. 754. James, Cat. 178; Long's Exped. 2. 256. DC. Prodr. 1. 424. Spreng. Syst. 1. 964. Torrey, Ann. Lyc. N. Y. 2. 171; Nicol. Rep. 146; Frem. Rep. 88; Emory's Rep. 407; Pac. R. Rep. 4. 72; Mex. Bound. 40. Hook. Fl. Bor.-Am. 1. 105; Jour. Bot. 1. 196; Lond. Jour. Bot. 6. 75. Don, Mill. 1. 451. Torr. & Gray, Fl. 1. 204, in part; Pac. R. Rep. 2. 161. Eat. & Wr. 302. Dietr. 2. 1024. Scheele in Linn. 21. 597. Planch. in Lond. Jour. Bot. 7. 474 (Walp. Ann. 2. 121). Engelm. in Gray, Pl. Wright. 1. 25; Pl. Upp. Miss. 186. Parry, Pl. Minn. 610. Gray, Pac. R. Rep. 12. 41. Wood, Cl.-Book, 276, including *L. sulcatum*. Pl. Bourgeau, 255. Young, Fl. Texas, 191. Porter, Fl. Col. 16.

Var. **puberulum.** Engelm. in Gray, Pl. Wright. 1. 25. Gray, Pl. Wright. 2. 25.
L. Berlandieri, var. Gray, Pl. Fendl. 25; referred to *L. rigidum* in Pl. Lindh. 157.

L. rupestre. Engelm.; Gray, Pl. Lindh. 232; Pl. Wright. 1. 25 & 2. 25; Hall's Pl. Tex. 5. Walp. Ann. 2. 121. Engelm. in Gray, Pl. Wright. 1. 26. Torrey, Mex. Bound. 40.
L. Boottii, var. *rupestre*. Gray, Pl. Lindh. 155.

L. spergulinum. Gray, Proc. Am. Acad. 7. 333. Boland. Cat. 7.

L. striatum. Walter, 118. Gmel. Syst. Veg. 1. 514. Persoon, 1. 336. Poir. Suppl. 3. 443. Röm. & Schult. Syst. 6. 757. DC. Prodr. 1. 425. Spreng. Syst. 1. 962. Don, Mill. 1. 452. Torr. & Gray, Fl. 1. 205. Dietr. 2. 1026. Planch. in Lond. Jour. Bot. 7. 522 (Walp. Ann. 2. 135), suppressing the species. Chapman, 63. Gray, Proc. Am. Acad. 7. 334; Manual, 105.
L. Virginianum. Reich. Hort. Bot. 2. 35, **t. 198.**
L. rigidum. Torr. & Gray, Fl. 1. 204, in part.
L. Virginianum, var. *oppositifolium*. Engelm. in Gray, Pl. Wright. 1. 26.
? *L. Virginianum*, var. (?) *diffusum*. Wood, Cl.-Book, 2 ed. 195.
? *L. diffusum*. Wood, Cl.-Book, 276; Bot. & Fl. 66.

L. sulcatum. Riddel, Cat. Pl. Ohio, Suppl. 10. Gray, Manual, 105.
L. striatum. Nutt. Genera, 1. 206, not Walt.
L. rigidum. Torr. & Gray, Fl. 1. 204, in part. Gray, Pl. Fendl. 25. Wood, Cl.-Book, 276.
L. Boottii. Planch. in Lond. Jour. Bot. 7. 475 (Walp. Ann. 2. 121). Gray, Pl. Lindh. 155 & 157. Engelm. in Gray, Pl. Wright. 1. 26; Pl. Upp. Miss. 186. Torrey, Marcy's Rep. 281. Chapman, 63.
? *L. simplex*. Wood, Cl.-Book, 276; Bot. & Fl. 66.

L. usitatissimum, Linn. Pursh, 210. Torrey, Fl. U. S. 330; Fl. N. Y. 1. 318. Beck, Bot. 56. Torr. & Gray, Fl. 1. 204.

L. Virginianum. Linn. Spec. 279. Hill, Veg. Syst. 14, **t. 43, f. 1.** Walter, 117. Lam. Dict. 3. 523. Willd. Spec. 1. 1538; Enum. 339. Michx. Fl. 2. 36. Persoon, 1. 335. Pursh, 210. Röm. & Schult. Syst. 6. 749. Elliott, 1. 375. DC. Prodr. 1. 424. Torrey, Fl. U. S. 330; Fl. N. Y. 1. 118. Bigel. Fl. Bost. 123. Spreng. Syst. 1. 964. Hook. Fl. Bor.-Am. 1. 106; Jour. Bot. 1. 196. Don, Mill. 1. 451. Beck, Bot. 56. Darling, Fl. Cestr. 210. Torr. & Gray, Fl. 1. 204. Eat. & Wr. 302. Dietr. 2. 1024. Planch. in Lond. Jour. Bot. 7. 480 (Walp. Ann. 2. 123). Gray, Genera, 2. 108, **t. 143, f. 1–8**; Manual, 104; Hall's Pl. Tex. 5. Engelm. in Gray, Pl. Wright. 1. 26, excl. var. Chapman, 62.

Var. (?) **Floridanum.** Planch. in Lond. Jour. Bot. 7. 480 (Walp. Ann. 2. 123).
Var. (?) **Texanum.** Planch. ll. cc. Gray, Hall's Pl. Tex. 5.

L. annuum; Berlandieri.
Berlandieri; rigidum.
Boottii; rupestre, sulcatum.
decurrens; perenne.
diffusum; striatum.
Iudsonioides; multicaule.
Lewisii & *Lyallanum;* perenne.
rigidum; Berlandieri, striatum, sulcatum.

H. San-Sabeanum: Lechea Drummondii.
selagnoides; multicaule.
Sibiricum; perenne.
simplex; sulcatum.
striatum; sulcatum.
sulcatum; rigidum.
trisepalum; Helianthemum scoparium.
Virginianum; striatum.

MALPIGHIACEÆ.

ASPICARPA hyssopifolia. Gray, Pl. Lindh. 167; Pl. Wright. 1. 36 & 2. 30. Walp. Ann. 2. 206. Torrey, Mex. Bound. 48.

A. longipes. Gray, Pl. Wright. 1. 37 & 2. 30. Walp. Ann. 4. 370. Torrey, Mex Bound. 48.

BYRSONIMA lucida. HBK. Nov. Gen. 5. 147. DC. Prodr. 1. 580. Juss Monog. Malpig. 2. 40 (Walp. Rep. 5. 168). Richard, Fl. Cub. 115, **t. 28, A** Chapman, 82. Griseb. Fl. Brit. W. Ind. 115.
Malpighia lucida, Swartz. Hook. Bot. Mag. **t. 2462.**

GALPHIMIA angustifolia. Benth. Bot. Sulph. 9, **t. 5.** Walp. Rep. 5. 186 Gray, Proc. Am. Acad. 5. 155.
G. linifolia. Gray, Pl. Lindh. 166; Genera, 2, 196, **t. 173;** Pl. Wright. 1. 36 & 2. 30. Walp. Ann. 2. 199. Torrey, Mex. Bound. 48.

HIRÆA septentrionalis. Juss. in Ann. Sci. Nat. 2. 13. 259; Mon. Malpig. 2. 309 (Walp. Rep. 5. 331). Engelm. Wisliz. Rep. 30. Gray, Pl. Wright. 1. 37.
Var. **Coulteri.** Gray, Pl. Thurb. 303. Torrey, Mex. Bound. 48.
? *H. macroptera.* DC. Prodr. 1. 586; Moc. & Sessé, Fl. Mex. **t. 130.**

H. sericea. Engelm.; Gray, Pl. Wright. 1. 37. Walp. Ann. 4. 370. (Northern Mexico.)
H. —— ? Engelm. in Wisliz. Rep. 30.

JANUSIA Californica. Benth. Bot. Sulph. 8, **t. 4.** Walp. Rep. 5. 351. (Lower California.)

J. gracilis. Gray, Pl. Wright. 1. 37 & 2. 30. Walp. Ann. 4. 369. Torrey, Pac R. Rep. 7. 9, **t. 1;** Mex. Bound. 48.

MALPIGHIA glabra. Linn. Spec. 425. Cav. Diss. 2. 406, **t. 234, f. 1.** Sims Bot. Mag. **t. 813.** DC. Prodr. 1. 578. Don, Mill. 1. 635. Juss. Mon. Malpig. 2. 11 (Walp. Rep. 5. 153). Torrey, Mex. Bound. 48.

ZYGOPHYLLACEÆ.

FAGONIA Californica. Benth. Bot. Sulph. 10. Walp. Rep. 5. 385. Torrey Pac. R. Rep. 5. 359, **t. 1;** Mex. Bound. 42. Gray, Ives's Rep. 9. Watson, King's Rep 5. 418.

GUIACUM Coulteri. Gray, Pl. Thurb. 312. Walp. Ann. 4. 406. Torrey, Mex. Bound. 42. (Northern Mexico.)

G. sanctum. Linn. Spec. 382. DC. Prodr. 1. 707. Gray, Genera, 2. 123, **t. 148.** Griseb. Fl. Brit. W. Ind. 134. Chapman, 64. Wood, Bot. & Fl. 67.

G. officinale. Richard, Fl. Cub. 321.

Var. **parvifolium.** Nutt. Sylva, 3. 16, **t. 86.**

LARREA Mexicana. Moric. Pl. Nouv. Am. 71, **t. 48.** Walp. Rep. 5. 386. Torrey, Emory's Rep. 137, **t. 3**; Pac. R. Rep. 5. 359 & 7. 9; Mex. Bound. 42. Gray, Genera, 2. 120, **t. 147**; Pl. Wright. 1. 28 & 2. 26; Pl. Thurb. 299; Ives's Rep. 9. Torr. & Gray, Pac. R. Rep. 2. 161. Bigelow, same, 4. 14. Durand & Hilg. in Jour. Acad. Philad. 2. 3. 38; Pac. R. Rep. 5. 6. Watson, King's Rep. 5. 417; Pl. Wheel. 7.

Zygophyllum tridentatum. DC. Prodr. 1. 706.

Larrea glutinosa. Engelm. Wisliz. Rep. 9. Torrey, same, 29. Walp. Ann. 3. 840.

PORLIERA angustifolia. Gray, Pl. Wright. 1. 28. Torrey, Mex. Bound. 42.

Guiacum angustifolium. Engelm. Wisliz. Rep. 29. Gray, Pl. Lindh. 158; Genera, 2. 123, **t. 149.** Walp. Ann. 3. 840.

SERICODES Greggii. Gray, Pl. Wright. 1. 28. Walp. Ann. 4. 403. Baill. Hist. Pl. 4. 508. (Northern Mexico.)

TRIBULUS cistoides. Linn. Spec. 387. Jacq. Hort. Schoenb. **t. 103.** DC. Prodr. 1. 703. Gray, Genera, 2. 116, **t. 145.** Griseb. Fl. Brit. W. Ind. 134. Chapman, 64. Wood, Bot. & Fl. 67. Made a variety of *T. terrestris*, Linn., by Oliver, Fl. Trop. Afr. 1. 283.

T. grandiflorus. Benth. & Hook. Genera, 1. 264.

Kallstræmia grandiflora. Torrey; Gray, Pl. Wright. 1. 28; Proc. Am. Acad. 5. 155. Walp. Ann. 4. 404. Torrey, Mex. Bound. 42.

T. maximus. Linn. Spec. 386. Jacq. Icon. Rar. 3, **t. 462.** Lam. Ill. **t. 346, f. 2.** Elliott, 1. 476. DC. Prodr. 1. 704. Torrey, Ann. Lyc. N. Y. 2. 173. Benth. Pl. Hartw. 7. Griseb. Fl. Brit. W. Ind. 134. Wood, Bot. & Fl. 67.

T. terrestris. Muhl. Cat. 43.

T. trijugatus. Nutt. Genera, 1. 277. DC. Prodr. 1. 704. Dietr. 2. 1423.

Kallstræmia maxima. Torr. & Gray, Fl. 1. 213. Gray, Pl. Lindh. 158; Pl. Fendl. 28; Genera, 2. 118, **t. 146**; Pl. Wright. 2. 26; Hall's Pl. Tex. 5. Torrey, Emory's Rep. 137; Sitgr. Rep. 157; Mex. Bound. 42. Scheele, Röm. Texas, 432. Seem. Bot. Herald, 275. Wood, Cl.-Book, 280. Porter, Fl. Col. 17.

T. decolor. Macfadyen, Fl. Jam.

GERANIACEÆ.

ERODIUM cicutarium. L'Her.; Ait. Hort. Kew. 2. 414. See syn. in Ledeb. Fl. Ross. 1. 476. — Hook. Fl. Bor.-Am. 1. 116; Lond. Jour. Bot. 6. 76. Hook. & Arn. Bot. Beechey, 136. Torr. & Gray, Fl. 1. 208. Eat. & Wr. 237. Torrey, Fl. N. Y. 1. 121; Stansb. Rep. 388; Pac. R. Rep. 4. 72 & 7. 8; Mex. Bound. 41; Bot. Wilkes, 252. Gray, Pl. Fendl. 25; Genera, 2. 130; Ives's Rep. 51; Proc. Bost. Soc. Nat. Hist. 7. 146; Manual, 108; Proc. Am. Acad. 8. 378. Benth. Pl. Hartw. 301. Durand, Pl. Pratten. 84; Fl. Utah, 160. Bigelow, Pac. R. Rep. 4. 16. Newberry, same, 6. 68. Cooper, same, 12. 51. Boland. Cat. 7. Anderson, Cat. 119. Porter, Hayd. Rep. 1871, 480. Watson, King's Rep. 5. 50; Pl. Wheel. 7.

E. macrophyllum. Hook. & Arn. Bot. Beechey, 327. Torr. & Gray, Fl. 1. 679. Benth. Pl. Hartw. 301. Walp. Rep. 1. 447. Gray, Genera, 2. 130. Torrey, Pac. R. Rep. 4. 72; Mex. Bound. 41.

E. MOSCHATUM, Willd. Torrey, Pac. R. Rep. 7. 8.

E. Texanum. Gray, Pl. Lindh. 157; Genera, 2. 130, **t. 151**; Pl. Wright. 2. 25; Hall's Pl. Tex. 5. Walp. Ann. 2. 234. Torr. & Gray, Pac. R. Rep. 2. 161. Torrey, Mex. Bound. 41.

E. macrophyllum. Gray, Ives's Rep. 8.

FLŒRKEA proserpinacoides. Willd. Act. Berol. 3. 448. Poir. Suppl. 2. 661. Röm & Schult. Syst. 7. 53. Lindl. Hook. Jour. Bot. 1. 1, **t. 113.** Torr. & Gray, Fl. 1. 210. Dietr. 2. 1052. Torrey, Fl. N. Y. 1. 127, **t. 17**; Bot. Wilkes, 253. Gray, Genera, 2. 140, **t. 154**; Manual, 108. Schnizl. Icon. **t. 259, f. 16–18, 24.** Watson, King's Rep. 5. 50.

F. lacustris. Persoon, 1. 393.

Nectris pinnata. Pursh, 239. Dietr. 2. 1200.

F. uliginosa. Muhl. Cat. 36. Nutt. Genera, 1. 228. Raf. in Am. Jour. Sci. 1. 373. Torrey, Fl. U. S. 1. 339. Beck, Bot. 19. Hook. Jour. Bot. 1. 201. Darling. Fl. Cestr. 213. Eat. & Wr. 246.

F. palustris. Nutt. Genera, 1. 230. Barton, Comp. Fl. Philad. 1. 171. Spreng. Syst. 2. 135.

Cabomba pinnata. Röm. & Schult. Syst. 7. 1379.

GERANIUM cæspitosum. James, Long's Exped. 2. 3. Torrey, Ann. Lyc. N. Y. 2. 173; Sitgr. Rep. 156; Pac. R. Rep. 4. 72; Mex. Bound. 41. Torr. & Gray, Fl. 1. 207. Eat. & Wr. 253. Walp. Rep. 1. 450; Ann. 2. 236. Engelm. in Gray, Pl. Fendl. 27; Pl. Upp. Miss. 186. Gray, Pl. Fendl. 25; Pl. Wright. 2. 25. Watson, Pl. Wheel. 7.

G. Carolinianum. Linn. Spec. 682. Hill, Veg. Syst. 15, **t. 38, f. 2.** Retz. Obs. Bot. fasc. 1. 23. Lam. Dict. 2. 656. Cav. Diss. 2. 206, **t. 84, f. 1,** & **t. 124, f. 2.** Walter, 175. Ait. Hort. Kew. 2. 437. Willd. Spec. 3. 711; Enum. 716. Michx. Fl. 2. 38. Persoon, 2. 236. Pursh, 449. Richards. Frankl. Journ. 16. DC. Prodr. 1. 643. Elliott, 2. 157. Torrey, Compend. 254; Fl. N. Y. 1. 120; Nicol. Rep. 14. Marcy's Rep. 282; Pac. R. Rep. 4. 72; Mex. Bound. 41; Bot. Wilkes, 252. Spreng. Syst. 3. 74. Graham, Edinb. Phil. Jour. 1828, 376. Hook. Fl. Bor.-Am. 1. 11. Jour. Bot. 1. 201. Don, Mill. 1. 720. Beck, Bot. 65. Darling. Fl. Cestr. 32. Hook. & Arn. Bot. Beechey, 136. Torr. & Gray, Fl. 1. 207; Pac. R. Rep. 2. 1. Eat. & Wr. 252. Dietr. 4. 799. Benth. Pl. Hartw. 35. Parry, Pl. Minn. 6. Engelm. Pl. Upp. Miss. 186. Gray, Pl. Wright. 2. 25; Manual, 107; Proc. Am. Acad. 8. 378. Cooper, Pac. R. Rep. 12. 57. Chapman, 65. Pl. Bourgeau, 255. Boland. Cat. 7. Anderson, Cat. 119. Porter, Hayd. Rep. 1871, 480. Watson, King's Rep. 5. 50. Coulter, Hayd. Rep. 1872, 763.

G. atrum. Moench, Meth. 285.

G. lanuginosum. Jacq. Hort. Schoenb. 2. 8, **t. 140.**

Var. **longipes.** Watson, King's Rep. 5. 50.

G. Carolinianum. Gray, Am. Jour. Sci. 2. 33. 404.

G. COLUMBINUM, Linn. Beck, Bot. 68. Eat. & Wr. 253. Gray, Manual, 107.

G. DISSECTUM, Linn. Pursh, 449. Bigel. Fl. Bost. 257. Torrey, Compend. 254. Beck, Bot. 67. Eat. & Wr. 253. Gray, Manual, 107.

G. erianthum. DC. Prodr. 1. 641. Bong. Sitch. 129. Hook. & Arn. Bot. Beechey, 113. Torr. & Gray, Fl. 1. 206. Eat. & Wr. 253. Ledeb. Fl. Ross. 1. 464. Dietr.

4. 796. Rothr. Alask. 444. Miquel, Ann. Mus. Lugd.-Bat. 3. 13. Torrey, Bot. Wilkes, 251.

G. maculatum, β. Hook. Fl. Bor.-Am. 1. 115.

G. Fremonti. Torrey; Gray, Pl. Fendl. 26. Engelm. same, 27. Torrey, Frem. Rep. 88; Emory's Rep. 137 & 407; Marcy's Rep. **t. 3.** Walp. Ann. 2. 236. Porter, Hayd. Rep. 1870, 474; 1871, 480; Fl. Col. 17. Watson, King's Rep. 5. 49. Coulter, Hayd. Rep. 1872, 763. Rothr. Pl. Wheel. 36.

Var. **Parryi.** Engelm. in Am. Jour. Sci. 2. 33. 405. Gray, Proc. Acad. Philad. 1863, 59. Walp. Ann. 7. 484. Porter, Hayd. Rep. 1871, 480.

G. gracile. Engelm. in Gray, Pl. Fendl. 27. Walp. Ann. 2. 236. (Northern Mexico.)

G. incisum. Nutt.; Torr. & Gray, Fl. 1. 206. Newberry, Pac. R. Rep. 6. 68. Cooper, same, 12. 51. Gray, Proc. Am. Acad. 8. 378. Brew. & Wats. Bot. Calif. 1. 94.

G. albiflorum, var. (?) *incisum*. Torr. & Gray, Fl. 1. 206.

G. erianthum. Lindl. Bot. Reg. 27, Misc. 44; same, 28, **t. 52**, excl. syn.

G. Hookerianum, var. *incisum*. Walp. Rep. 1. 450.

G. viscosissimum. Fisch. & Mey. Ind. Sem. Petr. 11, Suppl. 18.

G. maculatum. Linn. Spec. 681. Hill, Veg. Syst. 15, **t. 36, f. 3.** Walter, 175. Lam. Dict. 2. 660. Cav. Diss. 1. 213, **t. 86, f. 2.** Ait. Hort. Kew. 2. 435. Moench, Meth. 284. Willd. Spec. 3. 705; Enum. 715. Michx. Fl. 2. 38. Persoon, 2. 235. Pursh, 448. Bigel. Fl. Bost. 256; Med. Bot. 1. 84, **t. 8.** Elliott, 2. 157. DC. Prodr. 1. 642. Reich. Icon. Bot. **t. 288.** Torrey, Compend. 254; Fl. N. Y. 1. 119; Nicol. Rep. 146. Spreng. Syst. 3. 73. Raf. Med. Bot. 1. 215, **f. 42.** Hook. Fl. Bor.-Am. 1. 115; Lond. Jour. Bot. 6. 76. Don, Mill. 1. 718. Beck, Bot. 67. Spach, Hist. Veg. 3. 295. Darling. Fl. Cestr. 392. Lindl. Fl. Med. 221. Torr. & Gray, Fl. 1. 206. Eat. & Wr. 252. Dietr. 4. 796. Engelm. in Gray, Pl. Fendl. 27; Pl. Upp. Miss. 186. Gray, Genera, 2. 128, **t. 150**; Pac. R. Rep. 12. 41; Struct. Bot. 403, **f. 753–758**; Manual, 107. Parry, Pl. Minn. 610. Chapman, 65. Lesqx. Fl. Ark. 352. Pl. Bourgeau, 255. Traill, Canad. Fl. 41, **t. 4.** Myers, Am. Naturalist. 4. 438.

G. PUSILLUM, Linn. Muhl. Cat. 64. Torrey, Compend. 254; Fl. N. Y. 1. 120. Beck, Bot. 67. Torr. & Gray, Fl. 1. 207. Eat. & Wr. 252. Gray, Manual, 107.

G. Richardsoni. Fisch. & Mey. in Ind. Sem. Petr. 4. 37. Lindl. Bot. Reg. 28, under t. 52. Engelm. in Gray, Pl. Fendl. 26. Gray, Pl. Fendl. 25; Am. Jour. Sci. 2. 33. 401; Proc. Acad. Philad. 1863, 59. Torrey, Pac. R. Rep. 4. 72. Porter, Hayd. Rep. 1870, 474; 1871, 479; Fl. Col. 17. Watson, King's Rep. 5. 49; Pl. Wheel. 7. Rothr. Pl. Wheel. 36.

G. albiflorum. Hook. Fl. Bor.-Am. 1. 116, **t. 40**; Bot. Mag. **t. 3124**, not Ledeb. Graham, Edinb. Phil. Jour. 1831, June. Torr. & Gray, Fl. 1. 206, excl. var., & 678. Eat. & Wr. 253. Cooper, Pac. R. Rep. 12. 57. Pl. Bourgeau, 255.

G. Hookerianum. Walp. Rep. 1. 450. Pl. Bourgeau, 255.

G. pentagynum. Engelm. Wislizenus Rep. 6; Gray, Pl. Fendl. 27. Walp. Ann. 2. 236 & 837. Referred to *G. Fremontii* by Torrey in Wislizenus Rep. 31.

G. Robertianum. Linn. Spec. 681. See syn. in Ledeb. Fl. Ross. 1. 473.—Pursh, 449. Bigel. Fl. Bost. 257. DC. Prodr. 1. 644. Torrey, Compend. 254; Fl. N. Y. 1. 121. Spreng. Syst. 3. 75. Beck, Bot. 68. Torr. & Gray, Fl. 1. 207. Eat. & Wr. 253. Hook. f. Fl. Arct. 288. Gray, Manual, 107.

G. inodorum. Don, Mill. 1. 721. Dietr. 4. 799.

G. albiflorum; incisum, Richardsonii.
atrum; Carolinianum.
erianthum; incisum.
Hookerianum; incisum, Richardsonii.
inodorum; Robertianum.
G. lanuginosum; Carolinianum.
maculatum; erianthum.
pentagynum; Richardsonii.
viscosissimum; incisum.

IMPATIENS fulva. Nutt. Genera, 1. 146. Barton, Comp. Fl. Philad. 1. 119. Torrey, Fl. U. S. 249; Fl. N. Y. 1. 125. DC. Prodr. 1. 687. Spreng. Syst. 1. 808. Reich. Hort. Bot. 2. 1, **t. 101.** Hook. Fl. Bor.-Am. 1. 117; Jour. Bot. 1. 201. Don, Mill. 1. 750. Beck, Bot. 69. Darling. Fl. Cestr. 141. Torr. & Gray, Fl. 1. 209. Dietr. 1. 846. Eat. & Wr. 283. Spach, Hist. Veg. 13. 273. Gray, Genera, 2. 135, **t. 152, 153**; Manual, 108. Engelm. Pl. Upp. Miss. 186. Cooper, Pac. R. Rep 12. 57. Chapman, 65. Pl. Bourgeau, 255.

I. biflora. Walter, 219. Willd. Spec. 1. 1175. Persoon, 1. 257. Pursh, 171. Röm. & Schult. Syst. 5. 349. Elliott, 1. 304. Sweet, Brit. Fl. Gard. **t. 43.**

I. nolitangere, β. Michx. Fl. 2. 149. Bigel. Fl. Bost. 98.

I. maculata. Muhl. Cat. 26.

I. pallida. Nutt. Genera, 1. 146. Torrey, Fl. U. S. 248; Fl. N. Y. 1. 125. DC. Prodr. 1. 687. Spreng. Syst. 1. 808. Hook. Fl. Bor.-Am. 1. 117; Jour. Bot. 1. 201. Don, Mill. 1. 750. Beck, Bot. 68. Darling, Fl. Cestr. 141. Torr. & Gray, Fl. 1. 208. Dietr. 1 846. Eat. & Wr. 283. Gray, Pl. Fendl. 27; Manual, 108. Engelm. Pl. Upp. Miss. 186. Chapman, 65. Lesqx. Fl. Ark. 353. Pl. Bourgeau, 255.

I. nolitangere. Michx. Fl. 2. 149, excl. var. Pursh, 171. Bigel. Fl. Bost. 98. Röm. & Schult. Syst. 5. 349. Elliott, 1. 303.

I. aurea. Muhl. Cat. 26.

? *I.* —— ? Anderson, Cat. 119. Brew. & Wats. Bot. Calif. 1. 93.

LIMNANTHES alba. Hartw.; Benth. Pl. Hartw. 301. Lindl. in Journ. Hort. Soc. Lond. 4. 112. Walp. Ann. 2. 239. Durand, Pl. Pratten. 84. Torrey, Pac. R. Rep. 4. 73. Brew. & Wats. Bot. Calif. 1. 95.

L. Douglasii. R. Br. in Lond. & Edinb. Phil. Mag. 2. 70. Lindl. Bot. Reg. 20, **t. 1673.** Benth. in Hort. Trans. 2. 1. 409. Don in Sweet's Brit. Fl. Gard. 2d ser. **t. 378.** Hook. Bot. Mag. **t. 3554.** Hook. & Arn. Bot. Beechey, 328. Torr. & Gray, Fl. 1. 209. Eat. & Wr. 301. Dietr. 2. 1419. Chatin, Ann. Sci. Nat. 4. 6. 240. Newberry, Pac. R. Rep. 6. 69. Torrey, Mex. Bound. 42. Schnizl. Icon. **t. 259, f. 1–15** & **19–23.** Maout & Decne. 355, **figs.** Boland. Cat. 7. Wood, Bot. & Fl. 68.

L. rosea. Hartw.; Benth. Pl. Hartw. 302. Lindl. in Jour. Hort. Soc. Lond. 4. 78 & **fig.** Walp. Ann. 2. 239. Torrey, Pac. R. Rep. 4. 73. Van Houtte, Fl. Serres, 5. 431 & **fig.** Boland. Cat. 7.

Floerkea Douglasii. Baillon, Adansonia, 10. 362; Hist. Pl. 5. 20, **f. 50–54.**

OXALIS Acetosella. Linn. Spec. 433. See syn. in Jacq. Oxal. 26; Ledeb. Fl. Ross. 1. 482. — Michx. Fl. 2. 38. Pursh, 322. Nutt. Genera, 1. 292. DC. Prodr. 1. 700. Torrey, Fl. U. S. 461; Fl. N. Y. 1. 122. Bigel. Fl. Bost. 257. Spreng. Syst. 2. 424. Raf. Med. Bot. 2. 46, **f. 68.** Hook. Fl. Bor.-Am. 1. 118, in part. Beck, Bot. 69. Torr. & Gray, Fl. 1. 211. Eat. & Wr. 336. Chapman, 63. Hook. f. Arct. Pl. 288. Gray, Manual, 109.

O. Americana. Bigelow; DC. Prodr. 1. 700. Zucc. Oxal. 26 & Nachtr. 35. Don, Mill. 1. 766.

O. Berlandieri. Torrey, Mex. Bound. 41. Walp. Ann. 7. 495.

O. corniculata. Linn. Spec. 435. See syn. in Jacq. Oxal. 15 & 16 (under *O. corniculata & stricta*); Ledeb. Fl. Ross. 1. 483; Hook. Fl. N. Zeal. 1. 42; Benth. Fl. Austral. 1. 301; Edgew. & Hook. f. Fl. Brit. Ind. 1. 436. — Sav. in Lam. Dict. 4. 683. Michx. Fl. 2. 39. Pursh, 322. Poir. Suppl. 4. 251. Elliott, 1. 525. DC. Prodr. 1. 692. Torrey, Fl. U. S. 462. Zucc. Oxal. 34 & Nachtr. 54. Hook. Fl. Bor.-Am. 1. 117; Jour. Bot. 1. 201. Beck, Bot. 70. Hook. & Arn. Bot. Beechey, 136. Torr. & Gray, Fl. 1. 211. Eat. & Wr. 337. Oakes, Hovey's Mag. 13. 218. Scheele, Linn. 21. 596; Röm. Texas, 434. Engelm. Pl. Upp. Miss. 186. Newberry, Pac. R. Rep. 6. 68. Cooper, same, 12. 41. Pl. Bourgeau, 255. Gray, Manual, 109; Proc. Am. Acad. 8. 378. Boland. Cat. 7.

O. pusilla. Salisb. in Linn. Trans. 2. 242, **t. 23, f. 5.**

O. pilosa & pumila. Nutt. in Torr. & Gray, Fl. 1. 212.

Var. **stricta.** Sav. in Lam. Dict. 4. 683. Hook. Fl. New Zeal. 1. 42.

O. stricta. Linn. Spec. 435. Hill, Veg. Syst. 9. 3, **t. 2, f. 4.** Thunb. Oxal. 22. Walter, 143. Ait. Hort. Kew. 2. 115. Jacq. Oxal. 20, **t. 4.** Willd. Spec. 2. 800; Enum. 490. Michx. Fl. 2. 39. Persoon, 1. 518. Pursh, 322. Bigel. Fl. Bost. 258. Poir. Suppl. 4. 251. Elliott, 1. 526. DC. Prodr. 1. 692. Torrey, Fl. U. S. 462; Fl. N. Y. 1. 123; Nicol. Rep. 146; Frem. Rep. 88; Emory's Rep. 407; Marcy's Rep. 281; Pac. R. Rep. 4. 73 & 7. 9; Mex. Bound. 41; Wilkes, Bot. 252. Spreng. Syst. 2. 429. Zucc. Oxal. 34 & Nachtr. 64. Hook. Fl. Bor.-Am. 1. 118; Jour. Bot. 1. 201. Don, Mill. 1. 756. Beck, Bot. 70. Torr. & Gray, Fl. 1. 212. Eat. & Wr. 337. Benth. Pl. Hartw. 10. Gray, Pl. Fendl. 27; Genera, 2. 112, **t. 144, f. 7–11**; Manual, 109. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 186. Chapman, 63. Lesqx. Fl. Ark. 352. Boland. Cat. 7. Anderson, Cat. 119. Porter, Hayd. Rep. 1870, 480; Fl. Col. 17.

O. Dillenii. Jacq. Oxal. 15 & 28. Willd. Spec. 2. 799. Persoon, 1. 518. Pursh, 323. Poir. Suppl. 4. 251. DC. Prodr 1. 691. Zucc. Oxal. 35. Spreng. Syst. 2. 430. Don, Mill. 1. 756.

O. florida. Salisb. Prodr. 322.

O. ambigua. Salisb. in Linn. Trans. 2. 242, **t. 23, f. 4.**

O. Lyoni. Pursh, 322. Poir. Suppl. 5. 754. Elliott, 1. 527. DC. Prodr. 1. 692. Zucc. Oxal. 35. Spreng. Syst. 2. 429. Don, Mill. 1. 757. Dietr. 2. 1602.

O. furcata & recurva. Elliott, 1. 527.

O. decaphylla. HBK. Nov. Gen. 5. 238, **t. 468.** DC. Prodr. 1. 695. Zucc. Oxal. 28 & Nachtr. 41. Gray, Pl. Wright. 2. 25. Torrey, Mex. Bound. 41.

O. dichondræfolia. Gray, Pl. Wright. 1. 27 & 2. 25. Walp. Ann. 4. 401. Torrey, Mex. Bound. 41.

O. Drummondii. Gray, Pl. Wright. 2. 25. Torrey, Mex. Bound. 41.

O. vespertilionis. Torr. & Gray, Fl. 1. 679, not Zucc. Dietr. 2. 1615. Gray, Pl. Lindh. 158; Pl. Wright. 1. 27. Young, Fl. Texas, 191.

O. Oregana. Nutt.; Torr. & Gray, Fl. 1. 211. Hook. & Arn. Bot. Beechey, 28. Eat. & Wr. 337. Dietr. 2. 1612. Walp. Rep. 1. 483. Torrey, Pac. R. Rep. 4. 72; Wilkes, Bot. 252. Newberry, Pac. R. Rep. 6. 68. Cooper, same, 12. 57. Boland. Cat. 7. Gray, Proc. Am. Acad. 8. 378.

O. Acetosella. Hook. Fl. Bor.-Am. 1. 118, in part.

O. trilliifolia. Hook. Fl. Bor.-Am. 1. 118. Torr. & Gray, Fl. 1. 211. Eat. & Wr. 337. Dietr. 2. 1615. A doubtful species.

O. violacea. Linn. Spec. 434. Hill, Syst. Veg. 9, **t. 3, f. 1.** Jacq. Hort. Vind. 2, **t. 180**; Oxal. 16 & 35, **t. 80, f. 2.** Walter, 143. Ait. Hort. Kew. 2. 113. Sav. in Lam. Dict. 4. 686. Willd. Spec. 2. 786; Enum. 488. Michx. Fl. 2. 39. Persoon,

1. 516. Pursh, 322. Poir. Suppl. 4. 245. Nutt. Genera, 1. 292. Elliott, 1. 525. Sims, Bot. Mag. **t. 2215.** DC. Prodr. 1. 695. Torrey, Fl. U. S. 462; Fl. N. Y. 1. 123; Nicol. Rep. 146; Emory's Rep. 407; Marcy's Rep. 281; Mex. Bound. 41. Turpin, Dict. Sci. Nat. 37. 135, **t. 132.** Zucc. Oxal. 19 & Nachtr. 27. Bigel. Fl. Bost. 258. Spreng. Syst. 2. 426. Don, Mill. 1. 760. Beck, Bot. 69. Spach, Hist. Veg. 3. 248. Torr. & Gray, Fl. 1. 211. Eat. & Wr. 337. Dietr. 2. 1606. Nees, Pl. Wied, 5. Gray, Genera, 2. 112, **t. 144, f. 1–6**; Pl. Wright. 2. 25; Pac. R. Rep. 12. 41; Manual, 109. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 186. Chapman, 63. Porter, Fl. Col. 17. Baill. Hist. Pl. 5. 24, **f. 64.**

O. longiflora. Linn. Spec. 433. Hill, Veg. Syst. 9, **t. 3, f. 2.** Thunb. Oxal. 113. Sav. in Lam. Dict. 4. 679. Willd. Spec. 791. Persoon, 1. 517. Poir. Suppl. 4. 247.

O. vespertilionis. Gray, Pl. Fendl. 27.

O. Wrightii. Gray, Pl. Wright. 1. 27 & 2. 25. Torr. & Gray, Pac. R. Rep. 2. 161. Walp. Ann. 4. 401. Torrey, Mex. Bound. 41.

RUTACEÆ.

ASTROPHYLLUM dumosum. Torrey, Pac. R. Rep. 2. 161; Mex. Bound. 42. Baill. Hist. Pl. 4. 394 & 472.

CITRUS VULGARIS, Riss. Nutt. Sylva, 2. 106, **t. 76.** Chapman, 62. Wood, Bot. & Fl. 71.

C. —— ? Torr. & Gray, Fl. 1. 222.

C. Aurantium. Cooper, Smithson. Rep. 1860, 440.

PEGANUM Mexicanum. Gray, Pl. Wright. 1. 30 & 2. 106. Walp. Ann. 4. 414. Torrey, Mex. Bound. 42.

PTELEA angustifolia. Benth. Pl. Hartw. 9. Walp. Rep. 1. 523. Gray, Pl. Fendl. 28. Torrey, Mex. Bound. 44. Watson, King's Rep. 5. 50. Porter, Fl. Col. 18.

P. trifoliata. Boland. Cat. 7.

P. Baldwinii. Young, Fl. Texas, 196.

P. Baldwinii. Torr. & Gray, Fl. 1. 215. Eat. & Wr. 379. Walp. Rep. 1. 523. Chapman, 67. Wood, Bot. & Fl. 71.

P. trifoliata. Linn. Spec. 118. Medicus, Bot. Beob. 1782, 215. Marsh. Arbust. 115. Walter, 88. Ait. Hort. Kew. 1. 162. Lam. Ill. 1. 336, **t. 84.** Moench, Meth. 55. Schmidt, Arb. 2, **t. 76.** Willd. Spec. 1. 670; Enum. 166. Michx. Fl. 1. 99. Nouv. Duham. 1. 252, **t. 57.** Poir. Dict. 5. 706. Persoon, 1. 145. Pursh, 107. Nutt. Genera, 1. 104. Elliott, 1. 201. Röm. & Schult. Syst. 3. 291. Torrey, Fl. U. S. 189; Fl. N. Y. 1. 133; Pac. R. Rep. 4. 73; Mex. Bound. 43. DC. Prodr. 2. 82. Spreng. Syst. 1. 441. Turpin, Dict. Sci. Nat. 44. 2, **t. 128.** A. Juss. in Mem. Mus. 12, **t. 26, f. 42.** Guimp. Otto & Hayne, **t. 74.** Beck, Am. Jour. Sci. 10. 264; Bot. 71. Don, Mill. 1. 806. Spach, Hist. Veg. 2. 369. Hook. Jour. Bot. 1. 202. Lindl. Fl. Med. 215. Torr. & Gray, Fl. 1. 215. Dietr. 1. 497. Eat. & Wr. 379. Loud. Arbor. 1. 489, **t. 59.** Scheele, Röm. Texas, 432. Gray, Genera, 2. 150, **t. 157**; Manual, 110. Richards. Arct. Exped. 423. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 187. Agardh, Theor. Syst. **t. 19, f. 7, 8.** Curtis, Bot. N. Car. 107. Lesqx. Fl. Ark. 353. Chapman, 66. Schnizl. Icon. **t. 250, f. 15–26.** Baill. Hist. Pl. 4. 395, **f. 445, 446.**

Var. **mollis.** Torr. & Gray, Fl. 1. 680. Engelm & Gray, Pl. Lindh. 33. Torrey, Marcy's Rep. 282. Gray, Pl. Wright. 1. 31; Hall's Pl. Tex. 5. Wood, Bot. & Fl. 71.

P. (?) *tomentosa.* Raf. Fl. Lud. 108.

P. mollis. M. A. Curtis, Am. Jour. Sci. 2. 7. 406 (Bot. Zeit. 8. 529); Bot. N. Car. 107. Walp. Ann. 2. 259. Chapman, 67. Young, Fl. Texas, 196.

RUTA GRAVEOLENS, Linn. Gray, Manual, 679.

THAMNOSMA montanum. Torrey, Frem. Rep. 318 (Bot. Zeit. 5. 41); Pac. R. Rep. 4. 73, **t. 3**; Mex. Bound. 42. Walp. Ann. 1. 160. Gray, Pl. Thurb. 304; Ives's Rep. 9. Watson, King's Rep. 5. 418.

T. Texanum. Torrey, Mex. Bound. 42. Gray, Hall's Pl. Tex. 5.

Rutosma Texanum. Gray, Pl. Lindh. 158; Genera, 2. 144, **t. 155**; Pl. Wright. 1. 29 & 2. 26; Pl. Thurb. 298 & 304. Torr. & Gray, Pac. R. Rep. 2. 161.

XANTHOXYLUM Americanum. Mill. Dict.; DuRoi, Obs. Bot. 57. Wangenh. Beschreib. 116. Torr. & Gray, Fl. 1. 214. Torrey, Fl. N. Y. 1. 132; Nicol. Rep. 147. Emerson, Mass. Trees, 509. Gray, Genera, 2. 148, **t. 156**; Pac. R. Rep. 12. 41; Struct. Bot. 405, **f. 759–766**; Manual, 110. Richards. Arct. Exped. 423. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 187.

X. Clava-Herculis. Lam. Dict. 2. 38; Ill. **t. 811, f. 3.** Ait. Hort. Kew. 3. 399. Moench, Meth. 340. James, Long's Exped. 1. 317.

X. fraxinifolium. Marsh. Arbust. 167.

X. fraxineum. Willd. Berl. Baum. 413; Spec. 4. 757; Enum. 1013. Persoon, 2. 615. Ait. f. Hort. Kew. 5. 382. Pursh, 210. Nutt. Genera, 2. 236. Nouv. Duham. 7. 3, **t. 2.** James, Long's Exped. 2. 101. Bigel. Med. Bot. 3. 156, **t. 59**; Fl. Bost. 376. DC. Prodr. 1. 726. Spreng. Syst. 1. 945. Torrey, Compend. 373. Hook. Fl. Bor.-Am. 1. 118. Raf. Med. Bot. 2. 113, **f. 96**. Don, Mill. 1. 802. Beck, Bot. 70. Spach, Hist. Veg. 2. 364. Lindl. Fl. Med. 216. Dietr. 2. 1000. Eat. & Wr. 482. Nees, Pl. Wied, 5. Loud. Arbor. 1. 488, **f. 158** & **t. 58**. Agardh, Theor. Syst. **t. 19, f. 9.** Schnizl. Icon. **t. 250, f. 1–14.** Maout & Decne, 365, **figs.** Baill. Hist. Pl. 4. 389, **f. 433–438.**

X. mite. Willd. Enum. 1013. Poir. Suppl. 5. 622. DC. Prodr. 1. 727. Don, Mill. 1. 802. Loud. Arbor. 1. 489.

X. ramiflorum. Michx. Fl. 2. 235.

X. tricarpum. Hook. Fl. Bor.-Am. 1. 118, not Michx.

Thylax fraxineum. Raf. Med. Bot. 2. 114.

X. Caribæum. Lam. Dict. 2. 40. See syn. Trian. & Planch. in Ann. Sci. Nat. 5. 14. 315.

? *X. Floridanum.* Nutt. Sylva, 3. 14, **t. 85.** Chapman, 66. Wood, Bot. & Fl. 70. Young, Fl. Texas, 194.

X. Clava-Herculis. Linn. Spec. 270, excl. hab. Jam., not Lam. nor DC. Willd. Spec. 4. 754, in part. Elliott, 2. 690. Trian. & Planch. in Ann. Sci. Nat. 5. 14. 317, with syn.

X. fraxinifolium. Walter, 243.

Fagara fraxinifolia. Lam. Ill. **t. 334.**

X. Carolinianum. Lam. Dict. 2. 39; Ill. **t. 811, f. 1.** Torr. & Gray, Fl. 1. 214. Engelm. & Gray, Pl. Lindh. 5. Gray, Genera, 2. 148, **t. 156, f. 13, 14** (fl.); Manual, 110; Hall's Pl. Tex. 5. Scheele, Röm. Texas, 432. Nutt. Sylva, 3. 8, **t. 83.** Curtis, Bot. N. Car. 103. Chapman, 66.

X. aromaticum. Willd. Spec. 4. 755, excl. syn. Jacq. f. Ecl. 1. 103, **t. 70.**

Pseudopetalon glandulosum & tricarpum. Raf. Fl. Lud. 108; Med. Bot. 2. 114.

X. Catesbianum. Raf. Med. Fl. 2. 114.

X. tricarpum. Michx. Fl. 2. 235. Poir. Suppl. 2. 294. Ait. f. Hort. Kew. 5. 382. Pursh, 210. DC. Prodr. 1. 726. Elliott, 2. 690. A. Juss. in Mem. Mus. 12, t. 25, f. **38**. Spreng. Syst. 1. 945. Don, Mill. 1. 803. Spach, Hist. Veg. 2. 365. Eat. & Wr. 482. Dietr. 2. 1000. Loud. Arbor. 1. 488.

Var. **fruticosum**. Gray, Pl. Wright. 1. 30. Torr. & Gray, Pac. R. Rep. 2. 161. Torrey, Mex. Bound. 43. Chapman, 66.

X. macrophyllum. Nutt. Sylva, 3. 10.

X. alveolatum. Shuttlw. in Herb. (Pl. Rugel, n. 71.)

X. hirsutum. Buckley, Proc. Acad. Philad. 1861, 450 & 1870, 136; fide Gray in same, 1862, 162. Young, Fl. Texas, 195.

X. Pterota. HBK. Nov. Gen. 6. 3. DC. Prodr. 1. 725. Torr. & Gray, Fl. 1. 680. Nutt. Sylva, 3. 11, t. **84**. Seem. Bot. Herald, 275. Torrey, Mex. Bound. 43. Chapman, 66. Young, Fl. Texas, 195. Trian. & Planch. in Ann. Sci. Nat. 5. 14. 311, with syn. Engler, Mart. Fl. Bras. fasc. 65. 154.

Fagara Pterota. Linn. Amœn. 5. 393, in part. Lam. Dict. 2. 444; Ill. 1. 335, t. **84**. Turpin, Dict. Sci. Nat. 16. 107, t. **127**.

F. lentiscifolia. Willd. Enum. 1. 166. Griseb. Fl. W. Ind. 137.

SIMARUBEÆ.

CASTELA erecta. Turpin, Ann. Mus. 7. 78, t. **5, f. B.** DC. Prodr. 1. 738. Planch. in Lond. Jour. Bot. 5. 569. Griseb. Fl. Brit. W. Ind. 140.

C. Nicholsonii. Hook. Bot. Misc. 1. 271, t. **55**. Torr. & Gray, Fl. 1. 680. Walp. Rep. 1. 525. Planch. l. c. 568. Gray, Genera, 2. 154, t. **158**; Pl. Wright. 1. 32; Pl. Thurb. 312. Torrey, Mex. Bound. 44. Schnizl. Icon. t. **246, f. 15–23.**

CNEORIDIUM dumosum. Hook. f. in Benth. & Hook. Genera, 1. 312. Baill. Hist. Pl. 4. 498. Brew. & Wats. Bot. Calif. 1. 97.

Pitavia dumosa. Nutt.; Torr. & Gray, Fl. 1. 215. Eat. & Wr. 360. Torrey, Mex. Bound. 43.

HOLACANTHA Emoryi. Gray, Pl. Thurb. 310 (Regensb. Flora, 38. 586). Torrey, Emory's Rep. t. **14**; Mex. Bound. 45, t. **8**. Walp. Ann. 4. 419. Baill. Hist. Pl. 4. 493.

KŒBERLINIA spinosa. Zucc. in Regensb. Flora, 1832, Beibl. 2. 74. Benth. Pl. Hartw. 35. Walp. Rep. 1. 258. Engelm. in Wisliz. Rep. 29; Emory's Rep. 158, f. **13**. Gray, Pl. Wright. 1. 30 & 2. 26. Torrey, Mex. Bound. 42. Baill. Hist. Pl. 4. 503.

SIMARUBA glauca. HBK. Nov. Gen. 6. 16. DC. Ann. Mus. 17. 323; Prodr. 1. 733. Gray, Genera, 2. 152. Nutt. Sylva, 3. 20, t. **87**. Griseb. Fl. Brit. W. Ind. 139, with syn. Chapman, 67. Wood, Bot. & Fl. 72. Engler, Mart. Fl. Bras. fasc. 65. 224 & syn.

BURSERACEÆ.

AMYRIS sylvatica. Jacq. Am. Pict. t. **108**. DC. Prodr. 2. 81. Dietr. 2. 1271. Griseb. Fl. Brit. W. Ind. 174, with syn.

A. dyatripa. Spreng. Neue Entdeck. 3. 48. DC. Prodr. 2. 81.

A. Floridana. Nutt. in Am. Jour. Sci. 5. 294; Sylva, 2. 114, t. **78**. DC. Prodr.

2. 81. Torr. & Gray, Fl. 1. 221. Eat. & Wr. 123. Loud. Arbor. 2. 561. Chapman, 68. Wood, Bot. & Fl. 72.

A. maritima. Richard, Fl. Cuba, 392, not Jacq.

BURSERA gummifera. Jacq. Am. Pict. t. **65.** Linn. Spec. 2 ed. 741. DC. Prodr. 2. 78. Descourt, Fl. 2, t. **97.** Nutt. Sylva, 2. 117, t. **79.** Griseb. Fl. W. Ind. 173. Chapman, 68. Cooper, Smithson. Rep. 1860, 440. Wood, Bot. & Fl. 72.

B. acuminata. Willd. Spec. 4. 1120. DC. Prodr. 2. 78.

? *B. simplicifolia.* DC. Prodr. 2. 78.

B. Hindsiana. Benth. & Hook. Genera, 1. 324. — (Lower California.)

Elaphrium Hindsianum. Benth. Bot. Sulph. 11, t. **8.**

B. microphylla. Gray, Proc. Am. Acad. 5. 155.

MELIACEÆ.

MELIA Azedarach, Linn. Elliott, 1. 475. James, Cat. 181. Audubon, Birds, t. **62.** Torr. & Gray, Fl. 1. 241. Eat. & Wr. 316. Curtis, Bot. N. Car. 65.

SWIETENIA Mahogoni. Linn. Spec. 2 ed. 271. Cav. Diss. 2. 365, t. **209.** DC. Prodr. 1. 625. Hook. Bot. Misc. 1. 21, t. **16, 17.** Torr. & Gray, Fl. 1. 242. Eat. & Wr. 447. Nutt. Sylva, 2. 98, t. **75.** Chapman, 62. Griseb. Fl. Brit. W. Ind. 131. Wood, Bot. & Fl. 66.

OLACINEÆ.

XIMENIA Americana. Linn. Spec. 1193. Bartram, Travels, 115. DC. Prodr. 1. 533. Nutt. Sylva, 1. 124, t. **36.** Schmizl. Icon. t. **223, f. 1–9.** Chapman, 61. Griseb. Fl. Brit. W. Ind. 310, with syn. Engler, Mart. Fl. Bras. fasc. 60. 10, t. **2, f. 1,** with syn.

ILICINEÆ.

ILEX ambigua. Chapman, 269. Curtis, Bot. N. Car. 59. Wood, Bot. & Fl. 208.

Cassine Caroliniana. Walter, 242.

Prinos ambiguus. Michx. Fl. 2. 236. Persoon, 1. 388. Poir. Suppl. 1. 406. Elliott, 2. 705. Torrey, Fl. U. S. 338. Bigel. Fl. Bost. 129. DC. Prodr. 2. 17. Watson, Dendr. 1, t. **29.** Spreng. Syst. 2. 183. Röm. & Schult. Syst. 7. 57. Don, Mill. 2. 20. Beck, Bot. 231. Hook. Jour. Bot. 1. 202. Spach, Hist. Veg. 2. 433. Eat. & Wr. 376. Dietr. 2. 1050. Loud. Arbor. 2. 521, f. **190.**

Synstima acuminata & *ambigua.* Raf. Sylv. Tellur. 48.

Nemopanthes ambiguus. Wood, Cl.-Book, 497.

I. Amelanchier. M. A. Curtis; Chapman, 270. Wood, Bot. & Fl. 208.

I. Cassine. Walter, 241. Ait. Hort. Kew. 1. 170, in part. James, Cat. 176; Long's Exped. 3. 154. Hook. Jour. Bot. 1. 202. Curtis, Bot. N. Car. 59. Chapman, 269. Lesqx. Fl. Ark. 373. Gray, Manual, 306.

I. Cassine, β. Linn. Spec. 125.

Cassine Peragua. Linn. Mant. 2. 220. Marsh. Arbust. 26. Plenck, Icon. t. **239.**

Cassine Caroliniana. Lam. Dict. 1. 652.

I. vomitoria. Ait. Hort. Kew. 1. 170. Willd. Spec. 1. 709. Nouv. Duham. 1. 10. Persoon, 1. 151. Pursh, 118. Nutt. Genera, 1. 109. Röm. & Schult. Syst. 3. 491 & Mant. 333. DC. Prodr. 2. 14. Spreng. Syst. 1. 495. Torrey, Ann. Lyc. N. Y. 2. 173. Don, Mill. 2. 17. Hook. Jour. Bot. 1. 202. Spach, Hist. Veg. 2. 430. Lindl. Fl. Med. 393. Dietr. 1. 555. Eat. & Wr. 282. Loud. Arbor. 2. 518, **f. 186.**

I. ligustrina. Jacq. Collect. 4. 105; Icon. Rar. 2. 9, **t. 310.** Lam. Ill. 1. 356.

I. Floridana. Lam. Ill. 1. 356.

I. Cassena. Michx. Fl. 2. 229. Poir. Suppl. 3. 65. Röm. & Schult. Syst. 3. 490. Elliott, 2. 681. Wood, Bot. & Fl. 208.

I. religiosa. Barton, Fl. Virg. 66.

Cassine ramulosa. Raf. Fl. Lud. 363.

Hierophyllus Cassine. Raf. Med. Bot. 2. 8.

Emetila ramulosa. Raf. Sylv. Tellur. 45.

Ageria Cassena & *geminata.* Raf. Sylv. Tellur. 47.

? *Oreophila myrtifolia.* Scheele, Röm. Texas, 432.

I. Dahoon. Walter, 241. Michx. Fl. 2. 228. Pursh, 117. Nutt. Genera, 1. 109. Röm. & Schult. Syst. 3. 489 & Mant. 332. DC. Prodr. 2. 14. Watson, Dendr. 2, **t. 114.** Spreng. Syst. 1. 495. Audubon, Birds, **t. 48.** Don, Mill. 2. 19. Hook. Jour. Bot. 1. 202. Spach, Hist. Veg. 2. 428. Dietr. 1. 554. Eat. & Wr. 282. Loud. Arbor. 2. 519. Curtis, Bot. N. Car. 58. Chapman, 269. Gray, Manual, 306.

I. Cassine. Linn. Spec. 125, in part & excl. var. Marsh. Arbust. 64. Ait. Hort. Kew. 1. 170, in part. Lam. Dict. 3. 147; Ill. 1. 355. Willd. Spec. 1. 709; Enum. 172; Hort. Berol. 1, **t. 31.** Nouv. Duham. 1. 9. Persoon, 1. 151. Poir. Suppl. 3. 65. Pursh, 117. Röm. & Schult. Syst. 3. 490. DC. Prodr. 2. 14. Spreng. Syst. 1. 495. Don, Mill. 2. 17. Spach, Hist. Veg. 2. 428. Dietr. 1. 554. Eat. & Wr. 282. Loud. Arbor. 2. 517, **f. 184.** Goepp. in Del. Sem. Vratisl. 1852 (Linn. 26. 746).

I. cassinoides. Link, Enum. 1. 148. Röm. & Schult. Syst. 3, Mant. 332.

I. laurifolia. Nutt. in Am. Jour. Sci. 5. 289. Eat. & Wr. 282.

Ageria palustris, obovata & *heterophylla.* Raf. Sylv. Tellur. 47.

Var. **angustifolia.** Torr. & Gray, Fl. ined.

I. Cassine, var. *angustifolia.* Willd. Spec. 1. 709. Nouv. Duham. 1. 9, **t. 3.**

I. angustifolia. Willd. Enum. 172. Pursh, 118. Nutt. Genera, 1. 109. Röm. & Schult. Syst. 3. 489. DC. Prodr. 2. 14. Watson, Dendr. 1, **t. 4.** Spreng. Syst. 1. 495. Don, Mill. 2. 17. Hook. Jour. Bot. 1. 202. Spach, Hist. Veg. 2. 428. Dietr. 1. 554. Loud. Arbor. 2. 517, **f. 185.** Goepp. in Del. Sem. Vratisl. 1852 (Linn. 26. 747). Some of these citations refer rather to the next form.

I. ligustrina. Elliott, 2. 708. Spach, Hist. Veg. 2. 429. Eat. & Wr. 282.

? *I. Watsoniana.* Spach, Hist. Veg. 2. 429.

Var. **myrtifolia.** Chapman, 269.

I. myrtifolia. Walter, 241. Nouv. Duham. 1. 10, **t. 4.** Michx. Fl. 2. 229. Poir. Suppl. 3. 65. Röm. & Schult. Syst. 3. 489. Link, Enum. 148. Spach, Hist. Veg. 2. 429. Eat. & Wr. 282. Gray, Manual, 306.

I. rosmarinifolia. Lam. Ill. 1. 356. Persoon, 1. 151. Poir. Suppl. 3. 65.

I. ligustrifolia. Don, Mill. 2. 19.

I. decidua. Walter, 241. Poir. Suppl. 3. 65. Curtis, Bot. N. Car. 59. Chapman, 269. Lesqx. Fl. Ark. 373. Gray, Manual, 306.

I. prinoides. Ait. Hort. Kew. 1. 169. Lam. Ill. 1. 355. Willd. Spec. 1. 708. Nouv. Duham. 1. 11. Michx. Fl. 2. 229. Persoon, 1. 151. Pursh, 118. Nutt. Genera, 1. 109. Röm. & Schult. Syst. 3. 488 & Mant. 332. Watson, Dendr. 2, **t. 115.** Spreng. Syst. 1. 495. Audubon, Birds, **t. 89.** Eat. & Wr. 282.

I. æstivalis. Lam. Dict. 3. 147; Ill. 1. 356.

Prinos deciduus. DC. Prodr. 2. 16. Don, Mill. 2. 20. Hook. Jour. Bot. 1. 202. Loud. Arbor. 2. 520.

I. ambiguus. Elliott, 2. 705.

I. glabra. Gray, Manual, 307. Curtis, Bot. N. Car. 60. Chapman, 270.

Prinos glaber. Linn. Spec. 330. Lam. Dict. 1. 208; Ill. t. **255**, f. **2**. Marsh. Arbust. 109. Walter, 247. Ait. Hort. Kew. 1. 478. Willd. Spec. 2. 226; Enum. 394. Michx. Fl. 2. 236. Nouv. Duham. 3. 215, t. **54**. Persoon, 1. 388. Pursh, 220. Bigel. Fl. Bost. 129. Lodd. Bot. Cab. t. **450**. Elliott, 2. 707. Torrey, Fl. U. S. 338; Fl. N. Y. 2. 4, t. **73**. DC. Prodr. 2. 17. Spreng. Syst. 2. 133. Röm. & Schult. Syst. 7. 60. Hook. Fl. Bor.-Am. 1. 121; Jour. Bot. 1. 202. Don, Mill. 2. 220. Beck, Bot. 231. Spach, Hist. Veg. 2. 435. Eat. & Wr. 376. Dietr. 2. 1050. Loud. Arbor. 2. 522, f. **2428**. Emerson, Mass. Trees, 346. Gray, Manual, 1 ed. 277. Wood, Bot. & Fl. 208.

Winterlia triflora. Moench, Meth. 74.

Ennepta myricoides. Raf. Sylv. Tellur. 52.

I. lævigata. Gray, Manual, 307.

Prinos lævigatus. Pursh, 220. Poir. Suppl. 4. 553. James, Long's Exped. 2. 101. Torrey, Fl. U. S. 338; Ann. Lyc. N. Y. 2. 174; Fl. N. Y. 2. 4. DC. Prodr. 2. 17. Spreng. Syst. 2. 133. Watson, Dendr. 1, t. **28**. Röm. & Schult. Syst. 7. 59 & 1617. Don, Mill. 2. 20. Beck, Bot. 231. Spach, Hist. Veg. 2. 434. Eat. & Wr. 376. Dietr. 2. 1050. Loud. Arbor. 2. 522, f. **192**. Emerson, Mass. Trees, 345. Wood, Bot. & Fl. 208.

I. lanceolata. Chapman, 270. A very doubtful species.

Prinos lanceolatus. Hill, Veg. Syst. 16. 57, t. **61**. Pursh, 220. Poir. Suppl. 4. 553. Elliott, 2. 707. DC. Prodr. 2. 17. Röm. & Schult. Syst. 7. 60. Don, Mill. 2. 20. Spach, Hist. Veg. 2. 434. Eat. & Wr. 376. Dietr. 2. 1050. Loud. Arbor. 2. 522. Wood, Bot. & Fl. 208.

Arinemia lanceolata. Raf. Sylv. Tellur. 49.

Prinos lævigatus, var. *lanceolatus.* Wood, Cl.-Book, 498.

I. lucida. Torr. & Gray, Fl. ined.

Prinos lucida. Ait. Hort. Kew. 2. 478. Willd. Spec. 2. 226. Persoon, 1. 388. DC. Prodr. 2. 17. Röm. & Schult. Syst. 7. 61.

Prinos coriaceus. Pursh, 221. Poir. Suppl. 4. 553. Nutt. in Am. Jour. Sci. 5. 293. Elliott, 2. 708. DC. Prodr. 2. 17. Spreng. Syst. 2. 133. Röm. & Schult. Syst. 7. 61. Don, Mill. 2. 21. Spach, Hist. Veg. 2. 435. Eat. & Wr. 376. Dietr. 2. 1050. Loud. Arbor. 2. 523, f. **2427**. Wood, Bot. & Fl. 498.

Prinos atomarius. Nutt. Genera, 1. 213. DC. Prodr. 2. 17. Spreng. Syst. 2. 133. Röm. & Schult. Syst. 7. 60. Don, Mill. 2. 20. Dietr. 2. 1050. Loud. Arbor. 2. 522.

Prinos glaber. Watson, Dendr. 1, t. **27**.

Ennepta coriacea & *atomaria.* Raf. Sylv. Tellur. 52.

I. coriacea. Chapman, 270. Curtis, Bot. N. Car. 60.

I. mollis. Gray, Manual, 306.

Prinos ambiguus. Pursh, 220, not Michx.

Prinos verticillatus, var. Röm. & Schult. Syst. 7. 59.

Prinos dubius. Don, Mill. 2. 20. Loud. Arbor. 2. 521.

I. monticola. Gray, Manual, 306.

I. ambigua. Torrey, Fl. N. Y. 2. 2, excl. syn.

I. Amelanchier, var. *monticola.* Wood, Bot. & Fl. 208.

I. opaca. Ait. Hort. Kew. 1. 169. Willd. Spec. 1. 708; Enum. 172; Berl. Baumz. 190. Nouv. Duham. 1. 8. Michx. Fl. 2. 228. Persoon, 1. 151. Poir. Suppl. 3. 65. Michx. f. Arbr. Am. 2, 191, **t. 11.** Pursh, 117. Bigel. Fl. Bost. 62. Röm. & Schult. Syst. 3. 487. Link, Enum. 147. Jam. Cat. 176; Long's Exped. 3. 154 Torrey, Fl. U. S. 194; Ann. Lyc. N. Y. 2. 173; Fl. N. Y. 2. 2. DC. Prodr. 2. 14. Spreng. Syst. 1. 495. Watson, Dendr. 1, **t. 3.** Hook. Fl. Bor.-Am. 1. 121; Jour. Bot. 1. 201. Raf. Med. Bot. 2. 7, **t. 53.** Don, Mill. 2. 17. Beck, Bot. 230. Spach, Hist. Veg. 2. 427. Darling. Fl. Cestr. 114. Dietr. 1. 554. Eat. & Wr. 282. Loud. Arbor. 2. 516, **t. 66, 67.** Emerson, Mass. Trees, 341. Curtis, Bot. N. Car. 58. Chapman, 269. Lesqx. Fl. Ark. 372. Gray, Manual, 306.

I. Canadensis. Marsh. Arbust. 64.

I. Aquifolium. Marsh. Arbust. 63. Walter, 241.

I. laxiflora. Lam. Dict. 3. 147; Ill. 1. 355. Pursh, 117. Röm. & Schult. Syst. 3. 494 & Mant. 334. DC. Prodr. 2. 14. Spreng. Syst. 1. 495. Don, Mill. 2. 17. Spach, Hist. Veg. 2. 427. Dietr. 1. 555. Eat. & Wr. 282. Loud. Arbor. 2. 517.

I. quercifolia. Meerb. Icon. Sel. 2, **t. 5.**

Ageria opaca. Raf. Sylv. Tellur. 47.

I. verticillata. Gray, Manual, 307. Chapman, 270. Curtis, Bot. N. Car. 60. Lesqx. Fl. Ark. 373.

Prinos verticillatus. Linn. Spec. 330. Lam. Dict. 1. 207; Ill. **t. 255, f. 1.** Marsh Arbust. 110. Ait. Hort. Kew. 1. 478. Willd. Spec. 2. 225; Enum. 394; Berl. Baumz. 232. Nouv. Duham. 3. 216. Persoon, 1. 387. Desf. Hist. Arbr. 2. 366 Pursh, 220. Bigel. Fl. Bost. 129; Med. Bot. 3. 141, **t. 56.** Barton, Fl. Med. **t. 17** Torrey, Fl. U. S. 337; Fl. N. Y. 2. 3. Elliott, 2. 706. DC. Prodr. 2. 17. Watson, Dendr. 1, **t. 30.** Guimp. Otto & Hayne, **t. 56.** Spreng. Syst. 2. 132. Röm & Schult. Syst. 7. 58. Hook. Fl. Bor.-Am. 1. 121; Jour. Bot. 1. 202. Don, Mill 2. 20. Beck, Bot. 230. Spach, Hist. Veg. 2. 433. Lindl. Fl. Med. 394. Eat. & Wr. 376. Dietr. 2. 1050. Loud. Arbor. 2. 521, **f. 191.** Emerson, Mass. Trees, 344 Wood, Bot. & Fl. 208.

P. confertus. Moench, Meth. 481.

P. Gronovii. Michx. Fl. 2. 236.

Var. **tenuifolia.** Torrey, Fl. U. S. 338.

Var. **padifolia.** Torr. & Gray, Fl. ined.

P. padifolius. Willd. Enum. 394; Berl. Baumz. 297. Poir. Suppl. 5. 555. Röm & Schult. Syst. 7. 59. Spach, Hist. Veg. 2. 433. Dietr. 2. 1050.

I. æstivalis; decidua.
ambigua & *Amelanchier;* monticola.
angustifolia; Dahoon.
Aquifolium; opaca.
Canadensis; opaca, Nemopanthes Canadensis.
Cassena; Cassine.
Cassine & *cassinoides;* Dahoon.
coriacea; lucida.
delicatula; Nemopanthes Canadensis.
Floridana; Cassine.

I. laurifolia; Dahoon.
laxiflora; opaca.
ligustrina; Cassine, Dahoon.
ligustrifolia; Dahoon.
Myrsinites; Pachystima Myrsinites.
myrtifolia; Dahoon.
prinoides; decidua.
quercifolia; opaca.
religiosa & *vomitoria;* Cassine.
rosmarinifolia & *Watsoniana;* Dahoon

NEMOPANTHES Canadensis. DC. Mem. Soc. Gen. 1. 450; Pl. Rar. Gen. 8 **t. 3;** Prodr. 2. 18. Don, Mill. 2. 13 Beck, Bot. 230. Spach, Hist. Veg. 2. 430.

Raf. Sylv. Tellur. 51. Eat. & Wr. 327. Torrey, Fl. N. Y. 2. 5. Hook. Fl. Bor.-Am. 1. 122; Jour. Bot. 1. 202. Loud. Arbor. 2. 503, **f. 172.** Emerson, Mass. Trees, 348. Gray, Manual, 307.

Ilex Canadensis. Michx. Fl. 2. 229, **t. 49.** Nouv. Duham. 1. 12. Ait. f. Hort. Kew. 1. 279. Poir. Suppl. 3. 66. Pursh, 118. Röm. & Schult. Syst. 3. 493 & Mant. 333. Torrey, Fl. U. S. 194. Bigel. Fl. Bost. 62. Spreng. Syst. 1. 495.

Ilex delicatula. Barton, Fl. Virg. 67.

Prinos ambiguus. Nutt. Genera, 1. 213.

Nemopanthus fascicularis. Raf. Jour. Phys. 1819, 96; Am. Jour. Sci. 1. 378; Sylv. Tellur. 51.

Nuttallia Canadensis. Rapp. Jard. Gen. 1821, 44.

Prinos integrifolius. Elliott, 2. 706. Spach, Hist. Veg. 2. 434. Eat. & Wr. 376.

Prinos longipes. Raf. Sylv. Tellur. 50.

PRINOS. See under *Ilex.*

ambiguus: Ilex mollis, Nemopanthes Canadensis.

atomarius: I. lucida.

confertus; I. verticillata.

coriaceus; I. lucida.

dubius: I. mollis.

P. glaber: I. lucida.

Gronovii; I. verticillata.

integrifolius & *longipes;* Nemopanthes Canadensis.

lævigatus; I. lanceolata.

padifolius; I. verticillata.

verticillatus; I. mollis.

CELASTRACEÆ.

CELASTRUS scandens. Linn. Spec. 196. Lam. Dict. 1. 660. Marsh. Arbust. 28. Ait. Hort. Kew. 1. 271. Gaertn. Fruct. **t. 95.** Willd. Spec. 1. 1125; Enum. 255. Michx. Fl. 1. 155. Persoon, 1. 242. Schkuhr, Handb. 1, **t. 47.** Pursh, 167. Bigel. Fl. Bost. 92. Nouv. Duham. 6, **t. 33.** Nutt. Genera, 1. 156. Röm. & Schult. Syst. 5. 418. James, Long's Exped. 1. 314. DC. Prodr. 2. 6. Torrey, Fl. U. S. 262; Fl. N. Y. 1. 140; Nicol. Rep. 147; Pac. R. Rep. 4. 74. Spreng. Syst. 1. 775. Hook. Fl. Bor.-Am. 1. 120; Jour. Bot. 1. 201. Don, Mill. 2. 9. Beck, Bot. 72. Spach, Hist. Veg. 2. 410. Darling. Fl. Cestr. 148. Torr. & Gray, Fl. 1. 257 & 685. Dietr. 1. 814. Eat. & Wr. 186. Loud. Arbor. 2. 502, **f. 171.** Emerson, Mass. Trees, 478. Gray, Pl. Fendl. 29; Gen. 2. 186, **t. 170**; Manual, 116. Richard. Arct. Exped. 423. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 187. Agardh, Theor. Syst. **t. 22, f. 5.** Curtis, Bot. N. Car. 119. Chapman, 77. Schnizl. Icon. **t. 236, f. 1, 12–14** & **27.**

C. bullatus. Linn. Spec. 196. Lam. Dict. 1. 660. Persoon, 1. 242. Ait. f. Hort. Kew. 2. 26. Pursh, 168. Don, Mill. 2. 7. Eat. & Wr. 186. Loud. Arbor. 2. 502.

Euonymoides scandens. Moench, Meth. 70.

EUONYMUS Americanus. Linn. Spec. 197. Lam. Dict. 2. 573. Walter, 96. Ait. Hort. Kew. 1. 274. Willd. Spec. 1. 1132; Enum. 256. Michx. Fl. 1. 155. Persoon, 1. 243. Nouv. Duham. 3. 26, **t. 9.** Pursh, 168. Röm. & Schult. Syst. 5. 466. Elliott, 1. 292. DC. Prodr. 2. 4. Torrey, Fl. U. S. 261; Fl. N. Y. 1. 142, **t. 20.** Spreng. Syst. 1. 788. Lodd. Cab. **t. 1322.** Hook. Fl. Bor.-Am. 1. 119. Don, Mill. 2. 5. Beck, Bot. 72. Spach, Hist. Veg. 2. 408. Darling. Fl. Cestr. 150. Audubon, Birds, **t. 395.** Torr. & Gray, Fl. 1. 258. Dietr. 1. 819. Eat. & Wr. 240. Walp. Rep. 1. 582. Loud. Arbor. 2. 499, **f. 168, 169.** Richard. Arct.

Exped. 423. Engelm. Pl. Upp. Miss. 187. Baill. in Bull. Bot. Soc. France, 5. 31
Curtis, Bot. N. Car. 102. Chapman, 76. Gray, Manual, 116; Hall's Pl. Tex. 5

E. sempervirens. Marsh. Arbust. 44.

E. alternifolius. Moench, Meth. 71.

Var. **sarmentosus.** Nutt. Genera, 1. 154. Torrey, Fl. U. S. 261. Torr. & Gra
Fl. 1. 258. Eat. & Wr. 240.

E. sarmentosus. Don, Mill. 2. 5. Loud. Arbor. 2. 500.

Var. **obovatus.** Torr. & Gray, Fl. 1. 258. Gray, Genera, 2. 188, t. 171
Manual, 116.

E. obovatus. Nutt. Genera, 1. 155. DC. Prodr. 2. 4. Torrey, Fl. U. S. 1. 2
Spreng. Syst. 1. 788. Don, Mill. 2. 5. Beck, Bot. 72. Dietr. 1. 820. Loud
bor. 2. 500.

Var. **angustifolius.** Wood, Bot. & Fl. 76.

E. angustifolius. Pursh, 168. Poir. Suppl. 5. 684. Röm. & Schult. Syst. 5. 4
Elliott, 1. 292. DC. Prodr. 2. 4. Spreng. Syst. 1. 788. Don, Mill. 2. 5. Spa
Hist. Veg. 2. 409. Torr. & Gray, Fl. 1. 258. Dietr. 1. 819. Eat. & Wr. 24
Loud. Arbor. 2. 500. Baill. in Bull. Bot. Soc. France, 5. 315.

E. atropurpureus. Jacq. Hort. Vind. 2. 155, t. **120.** Lam. Dict. 2. 573. A
Hort. Kew. 1. 274. Willd. Spec. 1. 1132; Enum. 1. 256. Michx. Fl. 1. 155. L
soon, 1. 243. Nouv. Duham. 3. 26. Pursh, 168. Tur,in, Dict. Sci. Nat. 17
t. **272.** Röm. & Schult. Syst. 5. 466. Elliott, 1. 292. DC. Prodr. 2. 4. Tor
Fl. U. S. 261; Ann. Lyc. N. Y. 2. 173; Fl. N. Y. 1. 141; Nicol. Rep. 147. Spa
Syst. 1. 788. Don, Mill. 2. 5. Beck. Bot. 72. Hook. Jour. Bot. 1. 201. Spa
Hist. Veg. 2. 407. Darling. Fl. Cestr. 149. Torr. & Gray, Fl. 1. 257, excl.
Dietr. 1. 819. Eat. & Wr. 240. Loud. Arbor. 2. 499, f. **167.** Gray, Genera, 2.
Manual, 116. Richard. Arct. Exped. 423. Parry, Pl. Minn. 610. Engelm
Upp. Miss. 187. Baill. Bull. Soc. Bot. France, 5. 314. Curtis, Bot. N.
Chapman, 76. Lesqx. Fl. Ark. 354.

E. Carolinicus. Marsh. Arbust. 43.

E. latifolius. Marsh. Arbust. 44. Agardh, Theor. Syst. t. **22, f. 4.**

E. occidentalis. Nutt.; Torrey, Pac. R. Rep. 4. 74. Newberry, same,
Bolander, Proc. Calif. Acad. 3. 78; Cat. 8.

E. atropurpureus? Hook. Fl. Bor.-Am. 1. 119.

E. atropurpureus, var. (?) β. Torr. & Gray, Fl. 1. 258. Walp. Rep. 1. 532.

GLOSSOPETALON spinescens. Gray, Pl. Wright. 2. 20, t. **12**; Pl. Th
200. Torrey, Pac. R. Rep. 4. 74; Mex. Bound. 47. Walp. Ann. 4. 426.

MAYTENUS phyllanthoides. Benth. Bot. Sulph. 54. Walp. Rep. 5. 40
Torrey, Mex. Bound. 47. Gray, Proc. Am. Acad. 5. 155. Chapman, 77.

MORTONIA Greggii. Gray, Pl. Wright. 1. 35. Torrey, Mex. Bound
Walp. Ann. 4. 425.

M. effusa. Turcz. Bull. Mosc. 1858, 453.

M. scabrella. Gray, Pl. Wright. 2. 28. Walp. Ann. 4. 425. Torrey, M
Bound. 47.

M. sempervirens. Gray, Pl. Wright. 1. 34, t. **4,** & 2. 28. Walp. Ann. 4. 4
Torrey, Mex. Bound. 47.

MYGINDA ilicifolia. Lam. Dict. 4. 396. Persoon, 1. 151. DC. Prodr. 2
Spreng. Syst. 1. 496. Chapman, 75.

M. latifolia. Swartz, Fl. Ind. Occ. 1. 342. DC. Prodr. 2. 13. Griseb. Fl. B
W. Ind. 146. Chapman, 76.

M. Rhacoma. Swartz, Fl. Ind. Occ. 1. 340. DC. Prodr. 2. 13. Griseb. l. c. 146, with syn. Chapman, 75.

PACHYSTIMA Canbyi. Gray, Proc. Am. Acad. 8. 623.

P. Myrsinites. Raf. in Am. Month. Mag. 1818; Sylv. Tellur. 42. Gray, Pl. Fendl. 29; Pl. Wright. 2. 29; Am. Jour. Sci. 2. 33. 408; Proc. Acad. Philad. 1863, 39; Proc. Am. Acad. 8. 378 & 624. Torrey, Pac. R. Rep. 4. 74; Mex. Bound. 47, Bot. Wilkes, 260. Porter, Hayd. Rep. 1870, 474; Fl. Col. 18. Watson, King's Rep. 5. 50; Pl. Wheel. 7. Coulter, Hayd. Rep. 1872, 763.

Fovea (?) Myrsinites. Pursh, 119. Poir. Suppl. 5. 702. Röm. & Schult. Syst. 5. 494.

Myginda myrtifolia. Nutt. Genera, 1. 109. James, Cat. 176. DC. Prodr. 2. 13. Spreng. Syst. 1. 496. Hook. Fl. Bor.-Am. 1. 129, **t. 41.** Don, Mill. 2. 15. Dietr. 1. 564. Eat. & Wr. 323. Loud. Arbor. 2. 505.

Oreophila myrtifolia. Nutt.; Torr. & Gray, Fl. 1. 259. Torrey, Frem. Rep. 88. Hook. in Lond. Jour. Bot. 6. 78. Cooper, Pac. R. Rep. 12. 30 & 57.

SCHÆFFERIA cuneifolia. Gray, Pl. Wright. 1. 35 & 2. 29. Torrey, Mex. Bound. 47.

S. frutescens. Jacq. Stirp. Am. 259. Sloan, Hist. Jam. 2, **t. 209, f. 1.** Lam. Ill. 3. 102, t. **809.** Poir. Dict. 6. 727. DC. Prodr. 2. 41. Griseb. Fl. W. Ind. 146. Chapman, 75.

S. [illegible] Swartz, Fl. Ind. Occ. 1. 327, **t. 7, f. A.**

S. [illegible]. Nutt. Sylva, 2. 42, **t. 56.**

RHAMNACEÆ.

ADOLPHIA infesta. Meisn. Gen. Pl. 70. Gray, Pl. Wright. 1. 34 & 2. 28. Torrey, Mex. Bound. 45. Miers, Ann. & Mag. Nat. Hist. 3. 5. 381; Contrib. Bot. 2. 54.

Colubrina infestus. HBK. Nov. Gen. 7. 61, **t. 614.** DC. Prodr. 2. 31.

Colubrina (?) multiflora & disperma. DC. Prodr. 2. 29.

Colubrina infesta. Brongn. Mem. Rham. 59; Ann. Sci. Nat. 1. 10. 366.

Colubrina infesta. Schlecht. in Linn. 15. 468.

BERCHEMIA volubilis. DC. Prodr. 2. 22. Brongn. Mem. Rham. 50. Don, Gen. 2. 27. Audubon, Birds, **t. 160.** Hook. Jour. Bot. 1. 202. Spach, Hist. Veg. 2. 446. Lindl. Fl. Med. 166. Torr. & Gray, Fl. 1. 260 & 685. Loud. Arbor. 2. 528, **f. 196.** Gray, Genera, 2. 174, **t. 165**; Manual, 114; Hall's Pl. Tex. 5. Curtis, Bot. N. Car. 117. Chapman, 73. Lesqx. Fl. Ark. 354.

Berchemia scandens. Hill, Veg. Hist. 14. 64, **t. 17**; Hort. Kew. 453, **t. 20.**

Rhamnus volubilis. Linn. f. Suppl. 132. Jacq. Collect. 2. 336; Icon. Rar. 2. 13, **t. 336.** Walter, 101. L'Her. Sert. Angl. 5 (Röm. u. Ust. Mag. Bot. 6. 63). Ait. Hort. Kew. 1. 264. Poir. in Lam. Dict. 4. 468. Michx. Fl. 1. 153. Persoon, 1. 240.

Zizyphus volubilis. Willd. Arb. 415; Spec. 1. 1102. Ait. f. Hort. Kew. 2. 18. Pursh, 188. Nutt. Genera, 1. 153. Elliott, 1. 290. Spreng. Syst. 1. 771. Dietr. 1. 840.

Omphalia volubilis. Röm. & Schult. Syst. 5. 332. HBK. Nov. Gen. 7. 56.

Berchemia undulata & repanda. Raf. Sylv. Tellur. 33.

CEANOTHUS Americanus. Linn. Spec. 195. Medicus, Bot. Beob. 1782, 330. Lam. Dict. 1. 659; Ill. **t. 129, f. 1.** Marsh. Arbust. 27. Walter, 101. Ait. Hort.

Kew. 1. 270. Plenck, Icon. t. **143.** Gaertn. Fruct. t. **106.** Willd. Spec. 1. 1114; Enum. 254. Michx. Fl. 1. 154. Persoon, 1. 244. Schkuhr, Handb. 1. 152, t. **46.** Sims, Bot Mag. t. **1479.** Pursh, 167. Bigel. Fl. Bost. 91. Nouv. Duham. 6, t. **31.** Loisel. Herb. Amat. 2, t. **81.** Röm. & Schult. Syst. 5. 295. Elliott, 1. 290. DC. Prodr. 2. 31. Torrey, Fl. U. S. 260; Fl. N. Y. 1. 144; Frem. Rep. 88; Emory's Rep. 407. Spreng. Syst. 1. 772. Hook. Fl. Bor.-Am. 1. 124; Jour. Bot. 1. 202. Don, Mill. 2. 37. Beck, Bot. 74. Spach, Hist. Veg. 2. 459. Darling. Fl. Cestr. 148. Lindl. Fl. Med. 166. Torr. & Gray, Fl. 1. 264; Pac. R. Rep. 2. 126. Dietr. 1. 812. Eat. & Wr. 185. Loud. Arbor. 2. 539, f. **214.** Emerson, Mass. Trees, 475. Gray, Genera, 2. 182, t. **169**; Manual, 115; Hall's Pl. Tex. 5. Richard. Arct. Exped. 423. Parry, Pl. Minn. 610. Agardh, Theor. Syst. t. **15, f. 5.** Curtis, Bot. N. Car. 104. Chapman, 74. Pl. Bourgeau, 255. Watson, Proc. Am. Acad. 10. 333.

C. trinervus. Moench, Meth. 651.

? *C. tardiflorus.* Hornem. Hort. Hafn. 230. Röm. & Schult. Syst. 5. 296. DC. Prodr. 2. 31. Dietr. 1. 812. Loud. Arbor. 2. 540.

C. perennis. Pursh, 167. Poir. Suppl. 5. 599. Röm. & Schult. Syst. 5. 297. Elliott, 1. 291. DC. Prodr. 2. 32. Spreng. Syst. 1. 772. Don, Mill. 2. 37. Spach, Hist. Veg. 2. 461. Dietr. 1. 812.

C. intermedius. Pursh, 167, and other authorities as under *C. perennis.* Torrey, Ann. Lyc. N. Y. 2. 174. Maund, Bot. Gard. 12, t. **572.** Loud. Arbor. 2. 540.

C. sanguineus. Nutt. Genera, 1. 153, not Pursh. Torr. & Gray, Fl. 1. 265, in part.

C. herbaceus. Raf. Med. Rep. 5. 360; Desv. Jour. Bot. 1. 227. Poir. Suppl. 5. 599. Torrey, Fl. U. S. 260. Beck, Bot. 74.

C. officinalis. Raf. Med. Bot. 2. 205.

C. cordulatus. Kellogg, Proc. Calif. Acad. 2. 124, f. **39.** Watson, Proc. Am. Acad. 10. 337.

C. divaricatus. Boland. Cat. 8.

C. divaricatus, var. *eglandulosus.* Watson, King's Rep. 5. 51.

C. crassifolius. Torrey, Pac. R. Rep. 4. 75 & 7. 5; Mex. Bound. 46, t. **11.** Walp. Ann. 7. 591. Watson, Proc. Am. Acad. 10. 338.

C. rigidus, var. *grandifolius.* Torrey, Pac. R. Rep. 4. 75.

Var. **glabratus.** Gray; Boland. Cat. 8.

C. cuneatus. Nutt.; Torr. & Gray, Fl. 1. 267. Hook. & Arn. Bot. Beechey, 329. Eat. & Wr. 185. Benth. Pl. Hartw. 392. Lindl. in Jour. Hort. Soc. 1. 6. 220, fig. Paxton, Fl. Gard. 2. 103. Durand, Pl. Pratten. 85. Torrey, Pac. R. Rep. 4. 75; Mex. Bound. 45; Bot. Wilkes, 263. Newberry, Pac. R. Rep. 6. 69. Belg. Hort. 8, t. **44.** Watson, Proc. Am. Acad. 10. 338.

Rhamnus (?) *cuneatus.* Dougl.; Hook. Fl. Bor.-Am. 1. 124. Hook. & Arn. Bot. Beechey, 136.

C. verrucosus. Nutt.; Torr. & Gray, Fl. 1. 267. Eat. & Wr. 186. Benth. Bot. Sulph. 10. Hook. Bot. Mag. t. **4660.** Lindl. in Jour. Hort. Soc. 6. 276, fig. Paxton, Fl. Gard. 3. 103 & 148. Lemaire, Jard. Fleur. 3, t. **316.** Walp. Ann. 4. 434.

C. macrocarpus. Nutt.; Torr. & Gray, Fl. 1. 267, not Willd. Eat. & Wr. 186. Kellogg, Proc. Calif. Acad. 1. 55.

C. megacarpus. Nutt. Sylva, 2. 46.

C. decumbens. Watson, Proc. Am. Acad. 10. 335.

C. sorediatus, var. Torrey, Pac. R. Rep. 4. 74.

C. dentatus. Torr. & Gray, Fl. 1. 268. Hook. & Arn. Bot. Beechey, 329. Eat. & Wr. 186. Paxton, Fl. Gard. 1, **t. 4.** Planchon, Fl. Serres, 6. 103, **t. 567.** Moore, Mag. Bot. 2. 169, **t. 16.** Lemaire, Jard. Fleur. 1, **t. 25.** Belg. Hort. 3, **t. 16.** Torrey, Mex. Bound. 46, **t. 10.** Boland. Cat. 8. Watson, Proc. Am. Acad. 10. 335.

C. Lobbianus. Hook. Bot. Mag. **t. 4810.** Fl. Serres, 10. 125, **t. 1016.** Walp. Ann. 4. 434.

? *C. diversifolius.* Kellogg, Proc. Calif. Acad. 1. 58 & 65.

C. —— ? Boland. in Proc. Calif. Acad. 3. 79.

C. divaricatus. Nutt.; Torr. & Gray, Fl. 1. 266 & 686. Hook. & Arn. Bot. Beechey, 328. Eat. & Wr. 185. Torrey, Pac. R. Rep. 7. 9. Watson, King's Rep. 5. 51, excl. var.; Proc. Am. Acad. 10. 336.

Var. **eglandulosus.** Torrey, Pac. R. Rep. 4. 75; Mex. Bound. 45.

C. integerrimus. Torrey, Pac. R. Rep. 4. 75, in part.

Var. **grosse-serratus.** Torrey, Pac. R. Rep. 4. 75.

C. Fendleri. Gray, Pl. Fendl. 29; Am. Jour. Sci. 2. 33. 407; Proc. Acad. Philad. 1863, 59. Walp. Ann. 2. 267. Engelm. Pl. Upp. Miss. 187. Torrey, Sitgr. Rep. 157; Pac. R. Rep. 4. 75. Porter, Fl. Col. 18. Watson, Pl. Wheel. 7; Proc. Amer. Acad. 10. 337.

C. floribundus. Hook. Bot. Mag. **t. 4806.** Fl. Serres, 10. 23, **t. 977.** Belg. Hort. 5, **t. 9.** Walp. Ann. 4. 434. Lemaire, Ill. Hort. 7, **t. 238.** Watson, Proc. Amer. Acad. 10. 338.

C. Greggii. Gray, Pl. Wright. 2. 28; Pl. Thurb. 301. Walp. Ann. 4. 435. Torrey, Mex. Bound. 45. Watson, King's Rep. 5. 418; Proc. Am. Acad. 10. 338.

C. [illegible]tus. Gray, Ives's Rep. 9.

C. hirsutus. Nutt.; Torr. & Gray, Fl. 1. 266. Eat. & Wr. 185. Torrey, Bot. Wilkes, 264. Watson, Proc. Am. Acad. 10. 336.

C. oliganthus. Nutt.; Torr. & Gray, Fl. 1. 266. Eat. & Wr. 185.

Var. **glaber.** Watson, Proc. Am. Acad. 10. 336.

C. [illegible]tus, var. *glaber.* Watson, King's Rep. 5. 51.

C. incanus. Torr. & Gray, Fl. 1. 265. Hook. & Arn. Bot. Beechey, 328. Eat. & Wr. 185. Torrey, Bot. Wilkes, 264. Boland. Cat. 8. Watson, Proc. Am. Acad. 10. 336.

C. integerrimus. Hook. & Arn. Bot. Beechey, 329. Torr. & Gray, Fl. 1. 686. Benth. Pl. Hartw. 302. Durand, Pl. Pratten. 85. Torrey, Pac. R. Rep. 4. 75. Newberry, same, 6. 69. Boland. Cat. 8. Watson, Proc. Am. Acad. 10. 334.

C. [illegible]icus. Kellogg, Proc. Calif. Acad. 2. 55.

C. Neadensis. Kellogg, same, 2. 152, **f. 45.**

C. microphyllus. Michx. Fl. 1. 154. Persoon, 1. 244. Poir. Suppl. 2. 142. Ait. Hort. Kew. 2. 22. Pursh, 167. Nutt. Genera, 1. 154. Röm. & Schult. Syst. 5. 296. Lindl. 1. 291. DC. Prodr. 2. 32. Sprengl. Syst. 1. 772. Don, Mill. 2. 37. Spach, Hist. Veg. 2. 461. Torr. & Gray, Fl. 1. 266. Dietr. 1. 812. Eat. & Wr. 185. Loud. Arbor. 2. 540. Chapman, 74. Wood, Cl.-Book. 291; Bot. & Fl. 77, excl. var. Watson, Proc. Am. Acad. 10. 335.

C. ovatus. Desf. Arb. 2. 381. Röm. & Schult. Syst. 5. 296. DC. Prodr. 2. 31. Don, Mill. 2. 37. Dietr. 1. 812. Loud. Arbor. 2. 540. Torr. & Gray, Pac. R. Rep. 2. 152. Gray, Proc. Acad. Philad. 1863, 59. Porter, Fl. Col. 18. Watson, Proc. Am. Acad. 10. 334.

C. —— Bigel. Fl. Bost. 2 ed. 92. Gray, Ann. Lyc. N. Y. 3. 224; Pl. Lindh. 70; Pac. R. Rep. 12. 11; Manual, 115; Hall's Pl. Tex. 5. Beck, Bot. 74. Torr.

& Gray, Fl. 1. 265 & 686. Eat. & Wr. 185. Torrey, Fl. N. Y. 1. 145, **t. 20**; Nicol Rep. 147; Emory's Rep. 138 & 407; Mex. Bound. 45. Scheele, Röm. Texas, 432. Parry, Pl. Minn. 610. Porter, Hayd. Rep. 1870, 474; Fl. Col. 18.

C. intermedius. Hook. Fl. Bor.-Am. 1. 124, not Pursh.

C. Fontanesianus & *Burmannianus.* Spach, Hist. Veg. 2. 460.

Var. **pubescens.** Torr. & Gray, Fl. 1. 265. Engelm. Pl. Upp. Miss. 187.

C. papillosus. Torr. & Gray, Fl. 1. 268. Hook. & Arn. Bot. Beechey, 329. Hook. Icon. **t. 272**; Bot. Mag. **t. 4815.** Eat. & Wr. 186. Lindl. Jour. Hort. Soc. 5. 142. Planch. Fl. Serres, 6. 103, **t. 567.** Paxton, Fl. Gard. 1. 74, **f. 50.** Moore, Mag. Bot. 2. 169, **t. 16.** Lemaire, Jard. Fleur. 1, **t. 17.** Durand, Pl. Pratten. 85. Walp. Ann. 4. 435. Boland. Cat. 8. Watson, Proc. Am. Acad. 10. 337.

C. prostratus. Benth. Pl. Hartw. 302. Walp. Ann. 2. 267. Durand, Pl. Pratten. 85. Torrey, Pac. R. Rep. 4. 75; Bot. Wilkes, 262. Newberry, Pac. R. Rep. 6. 69. Anderson, Cat. 119. Watson, King's Rep. 5. 51; Proc. Am. Acad. 10. 339.

? *C. cuneatus.* Kellogg, Proc. Calif. Acad. 1. 55.

C. rigidus. Nutt.; Torr. & Gray, Fl. 1. 268. Hook. & Arn. Bot. Beechey, 32[illegible] Eat. & Wr. 186. Benth. Pl. Hartw. 302. Lindl. Jour. Hort. Soc. 1. 197, **fig.** Hook. Bot. Mag. **t. 4664.** Paxton, Fl. Gard. 1. 74, **f. 51.** Lemaire, Jard. Fleur. 4, **t. 348.** Belg. Hort. 3, **t. 16.** Walp. Ann. 4. 434. Torrey, Mex. Bound. 45, **t. 9.** Boland. Proc. Calif. Acad. 3. 79; Cat. 8. Watson, Proc. Am. Acad. 10. 339.

C. sanguineus. Pursh, 167. Poir. Suppl. 5. 599. Röm. & Schult. Syst. 5. 2[illegible] DC. Prodr. 2. 32. Spreng. Syst. 1. 772. Hook. Fl. Bor.-Am. 1. 125. Don, Mill. 2. 37. Spach, Hist. Veg. 2. 461. Torr. & Gray, Fl. 1. 265 in part. Dietr. 1. 81[illegible] Eat. & Wr. 185. Loud. Arbor. 2. 540. Richard. Arct. Exped. 423. Engelm. Pl. Upp. Miss. 187. Watson, Proc. Am. Acad. 10. 334.

C. Oreganus. Nutt.; Torr. & Gray, Fl. 1. 265. Eat. & Wr. 185. Hook. & Lond. Jour. Bot. 6. 79; Bot. Mag. **t. 5177.** Cooper, Pac. R. Rep. 12. 3[illegible] Walp. Ann. 7. 591. Gray, Proc. Am. Acad. 8. 379. Torrey, Bot. Wilkes, 2[illegible]

C. serpyllifolius. Nutt. Genera, 1. 154. DC. Prodr. 2. 32. Spreng. Syst. 1. 7[illegible] Don, Mill. 2. 38. Torr. & Gray, Fl. 1. 266. Dietr. 1. 812. Eat. & Wr. 185. Chapman, 74. Watson, Proc. Am. Acad. 10. 335.

C. microphyllus, var. *serpyllifolius.* Wood, Bot. & Fl. 77.

C. sorediatus. Hook. & Arn. Bot. Beechey, 328. Torr. & Gray, Fl. 1. [illegible] Durand, Pl. Pratten. 85. Torrey, Pac. R. Rep. 4. 74, in part; Mex. Bound. [illegible] Watson, King's Rep. 5. 51, excl. var.; Proc. Am. Acad. 10. 336.

C. nitidus. Torrey, Pac. R. Rep. 4. 75.

? *C. azureus.* Kellogg, Proc. Calif. Acad. 1. 55, not Desf.

C. spinosus. Nutt.; Torr. & Gray, Fl. 1. 267. Eat. & Wr. 185. Torrey, Pac. R. Rep. 7. 9; Mex. Bound. 45. Watson, Proc. Am. Acad. 10. 337.

C. thyrsiflorus. Esch. in Mem. Acad. Petr. 10. 285 (Linn. Litt.-Bor. [illegible] Presl, Repert. Bot. 1. 196). Hook. Fl. Bor.-Am. 1. 125. Don, Mill. 2. [illegible] Hook. & Arn. Bot. Beechey, 136 & 328. Torr. & Gray, Fl. 1. 266. Dietr. 1. [illegible] & Wr. 185. Loud. Arbor. 2. 540. Lindl. Bot. Reg. 30, **t. 38.** Benth. Bot. Sulph. 10; Pl. Hartw. 302. Ann. Gand. 1847, **t. 107.** Nutt. Sylva, 2. 44, **t. 57.** Torrey, Pac. R. Rep. 4. 74; Mex. Bound. 45; Bot. Wilkes, 263. Newberry, Pac. R. Rep. 6. 69. Cooper, same, 12. 57. Bolander, Proc. Calif. Acad. 3. 78; Cat. 8. Watson, Proc. Am. Acad. 10. 334.

C. elegans. Lemaire, Ill. Hort. 7, **t. 268.** Walp. Ann. 7. 591.

Var. (?) **macrothyrsus.** Torrey, Bot. Wilkes, 263. Watson, l. c.

C. Veitchianus. Hook. Bot. Mag. t. **5127.** Lemaire, Ill. Hort. 6, Misc. 76. Fl. Serres, 13, 171, t. **1383.** Jour. Hort. 3, t. **22.** Belg. Hort. 10. 99, t. **8,** f. 2–3. Walp. Ann. 7. 591. Watson, Proc. Am. Acad. 10. 338.

C. velutinus. Dougl.; Hook. Fl. Bor.-Am. 1. 125, t. **45**; Bot. Mag. t. **5165.** Torr. & Gray, Fl. 1. 265 & 686. Eat. & Wr. 185. Loud. Arbor. 2. 540, f. **215.** Torrey, Frem. Rep. 88; Bot. Wilkes, 264. Richard. Arct. Exped. 423. Engelm. Pl. Upp. Miss. 187. Newberry, Pac. R. Rep. 6. 69. Cooper, same, 12. 14 & 30. Gray, Am. Jour. Sci. 2. 33. 407; Proc. Am. Acad. 8. 379. Walp. Ann. 7. 592. Boland. Cat. 8. Anderson, Cat. 119. Watson, King's Rep. 5. 51; Proc. Am. Acad. 10. 334. Coulter, Hayd. Rep. 1872, 763.

Var. **lævigatus.** Torr. & Gray, Fl. 1. 265. Porter, Hayd. Rep. 1870, 474; 1871, 480; Fl. Col. 18. Watson, King's Rep. 5. 51.

C. lævigatus. Hook. Fl. Bor.-Am. 1. 125.

C. azureus; hirsutus.
Barbatinatus; ovatus.
Californicus; integerrimus.
caudatus; Colubrina ferruginosa.
cuneatus; Greggii, prostratus.
divaricatus; incanus.
dumosus; hirsutus.
elegans; thyrsiflorus.
ferox; Scutia ferrea.
Fontanesianus; ovatus.
Americanus; Americanus.
infestus; Adolphia infesta.
integerrimus; divaricatus.
[illegible]dus; Americanus, ovatus.
[illegible]us; velutinus.
[illegible]us; dentatus.

C. macrocarpus & megacarpus; cuneatus.
microphyllus; serpyllifolius.
Nevadensis; integerrimus.
nitidus; hirsutus.
officinalis; Americanus.
oliganthus; hirsutus.
Oregonus; sanguineus.
ovalis; ovatus.
perennis; Americanus.
rigidus; crassifolius.
sanguineus; Americanus.
serediatus; decumbens, hirsutus.
tardiflorus & trinervus; Americanus.
verrucosus; cuneatus.
—— ?; dentatus.

COLUBRINA ferruginosa. Brongn. Mem. Rham. 62, t. **4,** f. **3.** Griseb. Fl. Brit. W. Ind. 100.

Rhamnus colubrinus. Linn. Spec. 2 ed. 195. Jacq. Hort. Vind. 3, t. **50.** Poir. Lam. Dict. 4. 467. Rom. & Schult. Syst. 5. 284, with syn.

Ceanothus colubrinus. Lam. Ill. 2. 90. Persoon, 1. 244. DC. Prodr. 2. 31.

Rhamnus ferruginosus. Nutt. in Jour. Acad. Phil. 7. 90. Torr. & Gray, Fl. 1. 263. Eat. & Wr. 390.

Colubrina ferruginosa. Raf. Sylv. Tellur. 29.

Mesosphærum colubrinum. Raf. l. c. 31.

Ceanothus Americanus. Nutt. Sylva, 2. 47, t. **58.** Chapman, 74.

C. Texensis. Gray, Pl. Lindh. 169; Pl. Wright. 1. 33. Walp. Ann. 2. 268. Torr. Mex. Bound. 47.

Rhamnus (?) Texensis. Torr. & Gray, Fl. 1. 263. Eat. & Wr. 390. Young, Fl. Texas, 204.

Rhamnus Drummondii. Young, Fl. Texas, 204.

CONDALIA obovata. Hook. Icon. t. **287.** Torr. & Gray, Fl. 1. 685. Gray, Pl. Lindh. 169; Genera, 2. 172, t. **164;** Pl. Wright. 1. 32 & 2. 27; Hall's Pl. Tex. 5. Torrey, Mex. Bound. 47.

C. spathulata. Gray, Pl. Wright 1. 32 & 2. 27. Walp Ann. 4. 433. Torrey, Mex. Bound. 47.

GOUANIA Domingensis. Linn. Spec. 2 ed. 1663. DC. Prodr. 2. 30. Brongn. Mem. Rham. 73. Griseb. Fl. Brit. W. Ind. 101. Chapman, 74.

KARWINSKIA Humboldtiana. Zucc. Nov. Stirp. in Denkschr. Baier. Akad. 4. 351. Schlecht. in Linn. 15. 400. Gray, Pl. Wright. 1. 32 & 2. 28; Proc. Am. Acad. 5. 155. Seem. Bot. Herald. 275. Torrey, Mex. Bound. 47. Brew. & Wats. Bot. Calif. 1. 100.

? *Rhamnus umbellatus.* Cav. Icon. 6. 2, **t. 504.** DC. Prodr. 2. 26.

Rhamnus Humboldtianus. Röm. & Schult. Syst. 5. 295. HBK. Nov. Gen. 7. 40, **t. 618.** DC. Prodr. 2. 26.

? *Rhamnus biniflorus.* DC. Prodr. 2. 26, not Hook. & Arn.

K. glandulosa. Zucc. l. c., **t. 16.** Schlecht. in Linn. 15. 460.

K. affinis & *biniflora.* Schlecht. l. c.

MICRORHAMNUS ericoides. Gray, Pl. Wright. 1. 33 & 2. 28. Torr. & Gray, Pac. R. Rep. 2. 162. Walp. Ann. 4. 433.

RHAMNUS alnifolia. L'Her. Sert. Angl. 5 (Rom. u. Ust. Mag. Bot. 6. 63). Ait. Hort. Kew. 1. 266. Poir. in Lam. Dict. 4. 470; Suppl. 5. 739. Willd. Spec. 1. 1100 Persoon, 1. 239. Nouv. Duham. 3. 39. Röm. & Schult. Syst. 5. 286. Torrey, Fl U. S. 263; Fl. N. Y. 1. 143. DC. Prodr. 2. 25. Guimp. Otto & Hayne, **t. 61.** Spreng. Syst. 1. 769. Hook. Fl. Bor.-Am. 1. 122, **t. 42.** Don, Mill. 2. 32. Beck, Bot. 73. Spach, Hist. Veg. 2. 455. Torr. & Gray, Fl. 1. 262. Eat. & Wr. 390 Nees, Pl. Wied, 5. Loud. Arbor. 2. 536, **f. 206.** Emerson, Mass. Trees, 474. Gray, Genera, 2. 180; Manual, 115. Richard. Arct. Exp. 423. Pl. Bourgeau, 255

R. frangulaoides. Michx. Fl. 1. 153. Nouv. Duham. 3. 46. Pursh, 166. Röm. & Schult. Syst. 5. 286. Torrey, Fl. U. S. 263. Spreng. Syst. 1. 769. Don, Mill. 2. 32. Eat. & Wr. 389. Loud. Arbor. 2. 536, **f. 207.**

R. alpinus. Richard. Frankl. Journ. 6, not Linn.

Girtanneria alnifolia & *frangulaoides.* Raf. Sylv. Tellur. 28.

R. Californica. Esch. in Mem. Acad. Petr. 10. 281 (Linn. Litt.-Ber. 1828. 149: Presl, Repert. Bot. 1. 197). Don, Mill. 2. 32. Torr. & Gray, Fl. 1. 263. Dietr 1. 806. Eat. & Wr. 390. Gray, Pl. Wright. 2. 28.

R. oleifolius. Hook. Fl. Bor.-Am. 1. 123, **t. 44.** Hook. & Arn. Bot. Beechey. 136 & 328. Torr. & Gray, Fl. 1. 260. Eat. & Wr. 390. Benth. Bot. Sulph. 10: Pl. Hartw. 302. Durand, Pl. Pratten. 85. Rev. Hort. 1874, 354, **f. 47.**

Endotropis oleifolia. Raf. Fl. Tellur. 31.

R. laurifolius. Nutt.; Torr. & Gray, Fl. 1. 260. Eat. & Wr. 390.

Frangula Californica. Gray, Genera, 2. 178; Proc. Bost. Soc. Nat. Hist. 7. 140 Torrey, Sitgr. Rep. 157; Pac. R. Rep. 4. 74; Mex. Bound. 46; Bot. Wilkes, 261 Newberry, Pac. R. Rep. 6. 69. Boland. Proc. Calif. Acad. 3. 78; Cat. 8. Anderson, Cat. 119.

Var. **tomentella.** Brew. & Wats. Bot. Calif. 1. 101.

R. tomentellus. Benth. Pl. Hartw. 303. Seem. Bot. Herald, 275. Walp. Ann 2. 267.

Frangula Californica, var. *tomentella.* Gray, Pl. Wright. 2. 28. Torrey, Pac. R Rep. 4. 74 & 7. 9.

R. CATHARTICA, Linn. Torrey, Fl. U. S. 263; Fl. N. Y. 1. 143. Beck, Bot. 74 Torr. & Gray, Fl. 1. 261. Eat. & Wr. 390. Bigel. Fl. Bost. 3 ed. 95. Emerson Mass. Trees, 473. Nutt. Sylva, 2. 52. Gray, Manual, 114.

R. Caroliniana. Walter, 101. Poir. in Lam. Dict. 4. 476. Michx. Fl. 1. 153. Nouv. Duham. 3. 47. Persoon, 1. 239. Pursh, 166. Röm. & Schult. Syst. 5. 285. Elliott, 1. 289. DC. Prodr. 2. 26. Spreng. Syst. 1. 768. Torrey, Ann. Lyc. N. Y. 2. 174. Don, Mill. 2. 32. Hook. Jour. Bot. 1. 202. Torr. & Gray, Fl. 1. 262. Dietr. 1. 807. Eat. & Wr. 390. Loud. Arbor. 2. 537. Gray, Pl. Lindh. 33; Hall's Pl. Tex. 5. Nutt. Sylva, 2. 50, **t. 59.** Lesqx. Fl. Ark. 354. Wood, Cl.-Book, 291; Bot. & Fl. 77.

? Frangula fragilis. Raf. Fl. Lud. 320; Sylv. Tellur. 27.

Sarcomphalus Caroliniana. Raf. Sylv. Tellur. 29.

Frangula Caroliniana. Gray, Genera, 2. 178, **t. 167**; Manual, 115. Torrey, Mex. Bound. 46. Curtis, Bot. N. Car. 92. Chapman, 73.

R. crocea. Nutt.; Torr. & Gray, Fl. 1. 261. Eat. & Wr. 390. Lindl. in Jour. Hort. Soc. 6. 217, **fig.** Paxton, Fl. Gard. 2. 84. Torrey, Pac. R. Rep. 4. 74; Mex. Bound. 46; Bot. Wilkes, 262. Boland. Cat. 8. Watson, Pl. Wheel. 7.

R. ilicifolius. Kellogg, Proc. Calif. Acad. 2. 36.

R. lanceolata. Pursh, 166. Poir. Suppl. 5. 739. Röm. & Schult. Syst. 5. 292. DC. Prodr. 2. 27. Spreng. Syst. 1. 769. Don, Mill. 2. 33. Torr. & Gray, Fl. 1. 261. Dietr. 1. 808. Eat. & Wr. 390. Torrey, Nicol. Rep. 147. Engelm. & Gray, Pl. Lindh. 33. Gray, Genera, 2. 180, **t. 168**; Manual, 114. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 187. Chapman, 73.

Cardiolepis nigra & rubra. Raf. Neogen. 1825; Sylv. Tellur. 28.

Sageretia lanceolata. Don, Mill. 2. 29.

R. Shortii. Nutt. in Jour. Acad. Philad. 7. 91.

Sarcomphalus Shortianus. Raf. Sylv. Tellur. 29.

R. parvifolius. Torr. & Gray, Fl. 1. 262 & 685, not Bunge. Eat. & Wr. 390.

R. Purshiana. DC. Prodr. 2. 25. Hook. Fl. Bor.-Am. 1. 123, **t. 43**; Lond. Jour. Bot. 6. 78. Don, Mill. 2. 32. Torr. & Gray, Fl. 1. 262. Dietr. 1. 807. Loud. Arbor. 2. 538, **f 211.** Nutt. Sylva, 2. 52. Richard. Arct. Exped. 423. Newberry, Pac. R. Rep. 6. 69. Boland. Cat. 8. Gray, Proc. Am. Acad. 8. 379.

R. alnifolius. Pursh, 166, not L'Her.

Cardiolepis obtusa. Raf. Sylv. Tellur. 28.

Frangula Purshiana. Cooper, Pac. R. Rep. 12. 29 & 57. Torrey, Bot. Wilkes, 262.

R. alnifolius; Purshiana.
alpinus; Californica.
buxifolius; Karwinskia Humboldtiana.
colubrinus; Colubrina ferruginea.
cuneatus; Ceanothus cuneatus.
Drummondii; Colubrina Texensis.
ferreus; Scutia ferrea.
ferrugineus; Colubrina ferruginea.
frangulioides; alnifolia.
Humboldtianus; Karwinskia Humboldtiana.
ilicifolius; crocea.
R. laurifolius; Californica.
minutiflorus; Sageretia Michauxii.
obtusifolius; Zizyphus obtusifolius.
oleifolius; Californica.
parvifolius; lanceolata.
scandens; Berchemia volubilis.
Shortii; lanceolata.
Texensis; Colubrina Texensis.
tomentellus; Californica.
umbellatus; Karwinskia Humboldtiana.
volubilis; Berchemia volubilis.

SAGERETIA Michauxii. Brongn. Mem. Rhamn. 53; Ann. Sci. Nat. 1. 10. 360. Don, Mill. 2. 29. Torr. & Gray, Fl. 1. 263. Gray, Genera, 2. 176, **t. 166**; Pl. Wright. 2. 28. Curtis, Bot. N. Car. 117. Chapman, 73. Wood, Bot. & Fl. 76.

Rhamnus minutiflorus. Michx. Fl. 1. 154. Persoon, 1. 239. Nouv. Duham. 3. 87 Pursh, 166. Poir. Suppl. 4. 88. Nutt. Genera, 1. 152. Röm. & Schult. Syst. 5. 285. Elliott, 1. 289. DC. Prodr. 2. 27. Spreng. Syst. 1. 769. Dietr. 1. 808 Eat. & Wr. 390.

Afarca parviflora. Raf. Sylv. Tellur. 30.

Segregatia Michauxii. Wood, Cl.-Book, 202.

SCUTIA ferrea. Brongn. Mem. Rhamn. 56; Ann. Sci. Nat. 1. 10. 363. Chapman, 72.

Rhamnus ferreus. Vahl, Symb. 3. 41, **t. 58.**

Zizyphus emarginatus. Swartz, Fl. Ind. Occ. 1954.

Ceanothus ferreus. DC. Prodr. 2. 30.

Condalia ferrea. Griseb. Fl. Brit. W. Ind. 100.

ZIZYPHUS lycioides. Gray, Pl. Lindh. 168; Pl. Wright. 1. 32 & 2. 27. Walp. Ann. 2. 266. Torr. & Gray, Pac. R. Rep. 2. 162. Torrey, Mex. Bound. 46

Z. obtusifolius. Gray, Pl. Lindh. 168; Genera, 2. 170, **t. 163**; Pl. Wright. 1. 32 & 2. 27. Torrey, Mex. Bound. 46.

Rhamnus (?) obtusifolius. Hook.; Torr & Gray, Fl. 1. 685. Young, Fl. Texas, 203.

Paliurus Texanus. Scheele in Linn. 21. 594. Walp. Ann. 2. 266.

Z. Parryi. Torrey, Mex. Bound. 46. Walp. Ann. 7. 587.

VITACEÆ.

AMPELOPSIS quinquefolia. Michx. Fl. 1. 160. Röm. & Schult. Syst. 5. 321. James, Long's Exped. 1. 317 & 3. 13. Torrey, Ann. Lyc. N. Y. 2. 173; Fl. N. Y 1. 148; Sitgr. Rep. 157; Pac. R. Rep. 7. 9; Mex. Bound. 45. Hook. Fl. Bor.-Am 1. 114. Torr. & Gray, Fl. 1. 245. Eat. & Wr. 123. Emerson, Mass. Trees, 471 Gray, Pl. Fendl. 30; Genera, 2. 166, **t. 162**; Pac. R. Rep. 12. 41; Manual, 11 Richard. Arct. Exped. 423. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 187 Curtis, Bot. N. Car. 115. Chapman, 72. Lesqx. Fl. Ark. 354. Desmoul. in Act Soc. Linn. Bord. 24. 1. Bailey, Am. Naturalist, 7. 4, **f. 2.** Porter, Fl. Col. 19.

Hedera quinquefolia. Linn. Spec. 202. Hill, Veg. Syst. 16, **t. 7, f. 2.** Marsh. Arbust. 59. Roth, Beitr. Bot. 1. 17. Walter, 102. Ait. Hort. Kew. 1. 281.

Vitis hederacea. Ehrh. Beitr. 6. 85. Willd. Spec. 1. 1182; Enum. 267. Poir Dict. 8. 610. Ait. f. Hort. Kew. 2. 52. Bigel. Fl. Bost. 93. Loisel. Nouv. Duham 7. 210. Spreng. Syst. 1. 778. Dietr. 1. 833. Durand, Bull. Soc. Acclim. 9. 486 Mon. Vit. 60.

Vitis quinquefolia. Lam. Ill. 2. 135. Moench, Meth. 76. Miquel, Ann. Mus Lugd.-Bat. 1. 91.

Cissus hederacea. Persoon, 1. 143. Pursh, 170. Nutt. Genera, 1. 144. Elliott 1. 305. Torrey, Fl. U. S. 266.

Ampelopsis hirsuta. Donn, Cat. Cantab. 166. Muhl. Cat. 26. Röm. & Schult Syst. 5. 321. DC. Prodr 1. 633. Don, Mill. 1. 694. Beck, Bot. 66. Loud Arbor. 1. 482.

A. hederacea. DC. Prodr. 1. 633. Don, Mill. 1. 694. Beck, Bot. 65. Spach Hist. Veg. 3. 216. Hook. Jour. Bot. 1. 200. Darling. Fl. Cestr. 153. Loud. Arbor. 1. 482, **f. 146.**

Quinaria hederacea & hirsuta. Raf. Med. Bot. 2. 122.

Ampelopsis heptaphylla. Buckl. in Proc. Acad. Philad. 1861, 450 and 1870, 19 fide Gray in same, 1862, 162. Young, Fl. Texas, 202.

VITIS acida. Chapman, 70. Durand, Bull. Soc. Acclim. 9. 486; Mon. Vit. 59. Young, Fl. Texas, 199.

Sicyos trifoliata. Linn. Spec. 1013.

Cissus acida. Linn. Spec. 2 ed. 170. Lam. Dict. 1. 30. DC. Prodr. 1. 630. Griseb. Fl. Brit. W. Ind. 102, with syn.

V. æstivalis. Michx. Fl. 2. 230. Poir. Dict. 8. 608. Pursh, 169. Nutt. Genera, 1. 143. Röm. & Schult. Syst. 5. 317. DC. Prodr. 1. 634. Elliott, 2. 688. Torrey, Fl. U. S. 265; Fl. N. Y. 1. 146; Sitgr. Rep. 157; Emory's Rep. 407; Mex. Bound. 45. Audubon, Birds, **t. 111, 114.** Don, Mill. 1. 711. Beck, Bot. 66. Spach, Hist. Veg. 3. 328. Hook. Jour. Bot. 1. 200. Darling. Fl. Cestr. 151. Torr. & Gray, Fl. 1. 244. Eat. & Wr. 480. Bigel. Fl. Bost. 3 ed. 97. Loud. Arbor. 1. 479, **f. 142.** Emerson, Mass. Trees, 469. Richard. Arct. Exped. 423. Le Conte, Proc. Acad. Philad. 1853, 271 (Regensb. Flora, 36. 707). Curtis, Bot. N. Car. 111. Chapman, 71. Buckl. in Pat. Off. Rep. 1861, 482. Durand, Bull. Soc. Acclim. 9. 481; Mon. Vit. 49. Miquel, Ann. Mus. Lugd.-Bat. 1. 93. Gray, Manual, 112 & 679; Hall's Pl. Tex 5. Engelm. in Am. Naturalist, 2. 321; Rep. Missouri State Entom. 1872, 61. Planch. in Bull. Soc. France, 21, Compt. Rend. 110.

V. laciniosa & vinifera, var. *Americana.* Marsh. Arbust. 165 & 166.

V. Labrusca. Walter, 243.

V. palmata. Vahl, Symb. 3. 42. Lam. Ill. 2. 135. Willd. Spec. 1. 1180. Persoon, 1. 252. Poir. Dict. 8. 607, referring it doubtfully to *V. vulpina.* Pursh, 170. DC. Prodr. 1. 635. Spreng. Syst. 1. 778. Raf. Med. Bot. 2. 134. Don, Mill. 1. 712. Dietr. 1. 833.

V. vulpina. Jacq. Hort. Schœnb. 4. 13, **t. 425,** fide Regel. Planch., l. c. 109, refers it doubtfully to *V. Labrusca.*

V. Virginiana. Poir. Dict. 8. 608. Desf. Cat. Hort. Par. 2 ed. 164. Loisel. Nouv. Duham. 7. 209. DC. Prodr. 1. 635. Raf. Med. Bot. 2. 134.

V. intermedia & labruscoides. Muhl. Cat. 26.

V. sinuata. Don, Mill. 1. 711. Loud. Arbor. 1. 479.

V. bicolor. Le Conte, Proc. Acad. Philad. 1852, 272 (Regensb. Flora, 36. 708).

V. Linsecomii. Buckley, Pat. Off. Rep. 1861, 485; Proc. Acad. Philad. 1861, 451, & 1870, 136. Gray, in same, 1862, 162, referring it to *V. Labrusca.* Durand, Bull. Soc. Acclim. 9. 485; Monog. Vit. 57 & 64. Walp. Ann. 7. 616. Young, Fl. Texas, 200.

V. Labrusca, var. *æstivalis.* Regel, Conspect. Vitis, 396.

Var. (?) **cinerea.** Engelm. in Gray, Manual, 679. Gray, Hall's Pl. Tex. 5.

V. æstivalis, var. Gray, Pl. Lindh. 166; Pl. Wright. 2. 27.

V. æstivalis, var. *canescens.* Engelm. in Am. Naturalist, 2. 321.

Var. **monticola.** Engelm. in Am. Naturalist, 2. 321.

? *V. vulpina.* Gray, Pl. Lindh. 166.

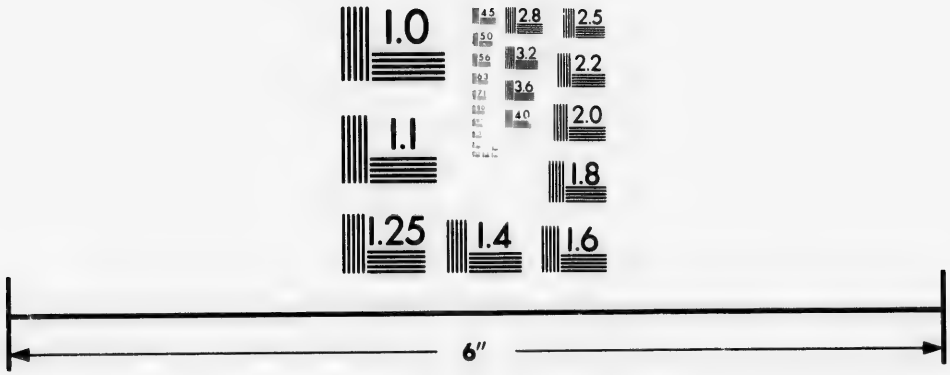
? *V. æstivalis*, var. Gray, Pl. Wright. 1. 32.

V. monticola. Buckley, Pat. Off. Rep. 1861, 485; Proc. Acad. Philad. 1861, 450, & 1870, 136. Gray, in same, 1862, 162, referring it to *V. rupestris.* Durand, Bull. Soc. Acclim. 9. 434; Monog. Vit. 57 & 63. Young, Fl. Texas, 200. Planch. in Bull. Soc. France, 21, Compt. Rend. 111.

V. arborea. Linn. Spec. 203. Marsh. Arbust. 164. Ait. Hort. Kew. 1. 283. Lam. Ill. 2. 135. Moench, Meth. 76. Willd. Spec. 1. 1183; Enum. 267. Jacq. Hort. Schœnbr. 4. 14, **t. 428.** Poir. Dict. 8. 609. Loisel. Nouv. Duham. 7. 210. Spreng. Syst. 1. 778. Dietr. 1. 834. Buckley, Pat. Off. Rep. 1861, 486. Koch, Dendr. 1, 558. Regel, Conspect. Vitis, 391.

Hedera arborea. Walter, 102.

IMAGE EVALUATION
TEST TARGET (MT-3)



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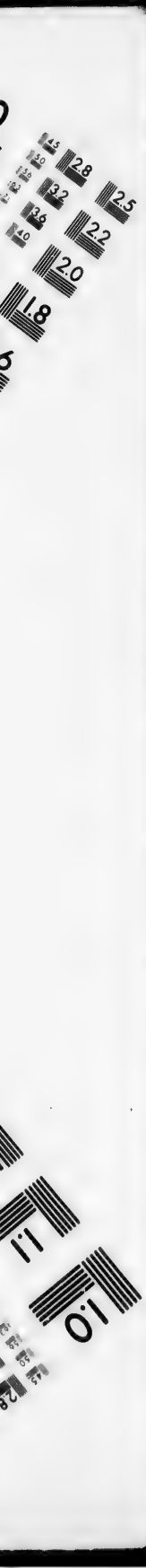
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Cissus orientalis. Lam. Ill. 1. 332, **t. 84, f. 2.** Poir. Suppl. 1. 108.

Vitis pinnata. Vahl, Symb. 3. 43. Lam. Ill. 2. 135. Willd. Spec. 1. 1182. Persoon, 1. 253. Poir. Dict. 8. 611. Spreng. Syst. 1. 778.

Ampelopsis bipinnata. Michx. Fl. 1. 160. DC. Prodr. 1. 633. Torrey, Ann. Lyc. N. Y. 2. 172. Don, Mill. 1. 694. Hook. Jour. Bot. 1. 200. Spach, Hist. Veg. 3. 217. Loud. Arbor. 1. 482.

Cissus stans. Persoon, 1. 143. Pursh, 170.

Cissus bipinnata. Nutt. Genera, 1. 144. Elliott, 1. 304. James, Cat. 177; Long's Exped. 3. 13.

Ampelopsis pinnata. DC. Prodr. 1. 633.

Vitis bipinnata. Torr. & Gray, Fl. 1. 243. Eat. & Wr. 480. Engelm. & Gray, Pl. Lindh. 6. Engelm. in Wisliz. Rep. 31. Torrey, Mex. Bound. 45. Curtis, Bot. N. Car. 115. Chapman, 70. Durand, Bull. Soc. Acclim. 9. 486; Monog. Vit. 60. Gray, Manual, 113; Hall's Pl. Tex. 5.

Cissus arborea. Desmoul. in Durand, Monog. Vit. 60.

Vitis orientalis. Boiss. Fl. Orient. 1. 956; fide Maxim. in Diag. Pl. Nov. Jap. dec. 15. 149.

V. Arizonica. Engelm. in Am. Naturalist, 2 321 & 9. 268; Rep. Missouri State Entom. 1872, 62. Planch. in Bull. Soc. France, 21, Compt. Rend. 111.

V. æstivalis, var. (?) Gray, Pl. Wright. 2. 27. Watson, Pl. Wheel. 7.

V. æstivalis. Torrey, Pac. R. Rep. 7. 9.

V. Californica. Benth. Bot. Sulph. 10; Pl. Hartw. 302. Newberry, Pac. R. Rep. 6. 70. Torrey, Mex. Bound. 45; Bot. Wilkes, 265. Buckley, Pat. Off. Rep. 1861, 483. Durand, Bull. Soc. Acclim. 9. 482; Monog. Vit. 54. Engelm. ll. cc. 2. 321, 9. 269, & 62. Boland. Cat. 7. Anderson, Cat. 119. Planch. l. c. 111.

V. Caribæa. Hook. & Arn. Bot. Beechey, 327. Torr. & Gray, Fl. 1. 683.

V. candicans. Engelm.; Gray, Pl. Lindh. 2. 166; Pl. Wright. 1. 32; Hall's Pl. Tex. 5. Durand, Monog. Vit. 51. Koch, Dendr. 1. 550. Engelm. ll. cc. 321 & 62. Planch. l. c. 110.

V. coriacea. Shuttlw. in herb., referred to *V. Caribæa* by Chapman, 71.

V. Mustangensis. Buckley, Pat. Off. Rep. 1861, 482; Proc. Acad. Philad. 1861, 451 & 1870, 136; fide Gray, same, 1862, 162. Durand, Bull. Soc. Acclim. 9. 482. Young, Fl. Texas, 200.

V. Labrusca, var. *typica ficifolia.* Regel, Conspect. Vitis, 396.

V. Caribæa. DC. Prodr. 1. 634. Chapman, 71. Buckley, Pat. Off. Rep. 1861, 483. Durand, Bull. Soc. Acclim. 9. 482; Monog. Vit. 51 & 63. Griseb. Fl. Brit. W. Ind. 102, with syn. Engelm. in Am. Naturalist, 2. 321. Wood, Bot. & Fl. 78. Planch. l. c. 110.

V. Labrusca. Linn. Spec. 203, in part.

V. cordifolia. Lam. Ill. 2. 134? Michx. Fl. 2. 231. Poir. Dict. 8. 609. Pursh, 169. Loisel. Nouv. Duham. 7. 209. Röm. & Schult. Syst. 5. 319. Elliott, 2. 688. DC. Prodr. 1. 634. Spreng. Syst. 1. 777. Raf. Med. Bot. 2. 131. Don, Mill. 1. 711. Hook. Jour. Bot. 1. 200. Spach, Hist. Veg. 3. 229. Torr. & Gray, Fl. 1. 244. Dietr. 1. 882. Eat. & Wr. 480. Nees, Pl. Wied, 5. Torrey, Fl. N. Y. 1. 147. Loud. Arbor. 1. 480, **f. 143.** Emerson, Mass. Trees, 470. Scheele, Röm. Texas, 433. Richard. Arct. Exped. 423. Engelm. Pl. Upp. Miss. 187; Am. Naturalist, 2. 321 & 9. 269; Rep. Missouri State Entom. 1872, 60. Curtis, Bot. N. Car. 114. Chapman, 71. Buckley, Pat. Off. Rep. 1861, 483. Durand, Bull. Soc. Acclim. 9. 483; Monog. Vit. 54. Gray, Manual, 112 & 679. Planch. l. c. 110, excl. var.

V. vulpina. Muhl. Cat. 26. Torrey, Fl. U. S. 264. Hook. Fl. Bor.-Am. 1. 115.

Beck, Bot. 66. Bigel. Fl. Bost. 3 ed. 97. Le Conte, Proc. Acad. Philad. 1853, 272 (Regensb. Flora, 36. 709).

V. vulpina, var. *cordifolia*. Regel, Conspect. Vitis, 394.

Var. **fœtida**. Engelm. in Am. Naturalist, 2. 321.

V. incisa. Nutt.; Torr. & Gray, Fl. 1. 243. Eat. & Wr. 480. Walp. Rep. 1. 442. Gray, Pl. Lindh. 166; Pl. Wright. 1. 32; Hall's Pl. Tex. 5. Engelm. in Wisliz. Rep. 31. Torrey, Pac. R. Rep. 4. 73; Mex. Bound. 45. Chapman, 70. Buckley, Pat. Off. Rep. 1861, 486. Durand, ll. cc. 486 & 59. Wood, Bot. & Fl. 78. Young, Fl. Texas, 199. Regel, Conspect. Vitis, 393.

Cissus incisa. Desmoul. in Durand, Monog. Vit. 59.

V. indivisa. Willd. Berl. Baumz. 2. 538. Spreng. Syst. 1. 777. Torr. & Gray, Fl. 1. 243. Dietr. 1. 832. Eat. & Wr. 480. Gray, Pl. Wright. 1. 32; Manual, 113; Hall's Pl. Tex. 5. Engelm. Pl. Upp. Miss. 187. Chapman, 71. Buckley, Pat. Off. Rep. 1861, 486. Durand, ll. cc. 486 & 58.

Ampelopsis cordata. Michx. Fl. 1. 159. Röm. & Schult. Syst. 5. 321. DC. Prodr. 1. 633. Torrey, Ann. Lyc. N. Y. 2. 173. Don, Mill. 1. 694. Beck, Bot. 65. Hook. Jour. Bot. 1. 200. Spach, Hist. Veg. 3. 215. Loud. Arbor. 1. 481.

Cissus Ampelopsis. Persoon, 1. 142. Poir. Suppl. 1. 103. Pursh, 170. Elliott, 1. 305. Torrey, Fl. U. S. 266.

Cissus indivisa. Desmoul. in Durand, Monog. Vit. 59.

Vitis heterophylla, var. *cordata*. Regel, Conspect. Vitis, 392.

V. Labrusca. Linn. Spec. 203, in part. Marsh. Arbust. 165. Ait. Hort. Kew. 1. 282. Lam. Ill. 2. 134. Moench, Meth. 75. Willd. Spec. 1. 1181; Enum. 267. Michx. Fl. 2. 230. Jacq. Hort. Schœnb. 4. 13, **t. 426**. Persoon, 1. 253. Poir. Dict. 8. 606. Pursh, 169. Bigel. Fl. Bost. 93. Loisel. Nouv. Duham. 7. 211. Röm. & Schult. Syst. 5. 316. Elliott, 2. 689. DC. Prodr. 1. 634. Torrey, Fl. U. S. 264; Fl. N. Y. 1. 146. Spreng. Syst. 1. 778. Hook. Fl. Bor.-Am. 1. 115; Jour. Bot. 1. 200. Don, Mill. 1. 711. Beck, Bot. 66. Spach, Hist. Veg. 3. 228. Darling. Fl. Cestr. 150. Torr. & Gray, Fl. 1. 244. Dietr. 1. 832. Eat. & Wr. 480. Loud. Arbor. 1. 479, **f. 141**. Emerson, Mass. Trees, 467. Gray, Genera, 2. 164, **t. 161**; Manual, 112. Curtis, Bot. N. Car. 112. Chapman, 71. Le Conte, Proc. Acad. Philad. 1853, 270 (Regensb. Flora, 36. 707). Buckley, Pat. Off. Rep. 1861, 481. Durand, Bull. Soc. Acclim. 9. 481; Monog. Vit. 44. Miquel, Ann. Mus. Lugd.-Bat. 1. 93. Engelm. in Am. Naturalist, 2. 321 & 9. 269; Rep. Missouri State Entom. 1872, 61. Regel, Conspect. Vitis, 395, in part. Planch. Bull. Soc. France, 21, Compt. Rend. 110.

V. taurina. Walter, 242.

V. palmata, pullata & *tenuifolia*. Le Conte, ll. cc. 271 & 707.

? *V. bracteata*. Le Conte, ll. cc. Raf. Med. Bot. 2. 125. Durand, Monog. Vit. 49.

V. riparia. Michx. Fl. 2. 231. Poir. Dict. 8. 609. Pursh, 169. Röm. & Schult. Syst. 5. 319. Sims, Bot. Mag. **t. 2429**. Elliott, 2. 688. DC. Prodr. 1. 635. Torrey, Fl. U. S. 265; Fl. N. Y. 1 147. Spreng. Syst. 1. 777. Raf. Med. Bot. 2. 131. Don, Mill. 1. 711. Beck, Bot. 66. Hook. Jour Bot. 1. 200. Spach, Hist. Veg. 3. 229. Torr. & Gray, Fl. 1. 244. Dietr. 1. 832. Eat. & Wr. 480. Loud. Arbor. 1. 480. Emerson, Mass. Trees, 470. Gray, Manual, 1 ed. 86. Parry, Pl. Minn. 610. Le Conte, Proc. Acad. Philad. 1853, 273 (Regensb. Flora, 36. 708). Engelm. Pl. Upp. Miss. 187; Am. Naturalist, 2. 321 & 9. 269; Gray's Manual, 679; Rep. Missouri State Entom. 1872, 61. Porter, Hayd. Rep. 1870, 474; Fl. Col. 19.

? *V. vulpina*. Linn. Spec. 203, in part, fide Planch. l. c. 109.

V. incisa. Jacq. Hort. Schœnb. 4. 14, t. **427.**

V. odoratissima. Donn, Cat. Cant. 66. Raf. Med. Bot. 2. 132. Le Conte, ll. cc. 273 & 709.

? *V. cordifolia.* Darling. Fl. Cestr. 151.

V. cordifolia, var. *riparia.* Gray, Manual, 113. Chapman, 71. Durand, Bull. Soc. Acclim. 9. 483; Monog. Vit. 55. Planch. Bull. Soc. France, 21, Compt. Rend. 110.

V. vulpina, var. *riparia.* Regel, Conspect. Vitis, 395.

V. rupestris. Scheele, Linn. 21. 591. Gray, Pl. Lindh. 165; Pl. Wright. 2. 27; Ives's Rep. 9. Walp. Ann. 2. 231. Torrey, Marcy's Rep. 282; Pac. R. Rep. 4. 73. Torr. & Gray, same, 2. 162. Buckley, Pat. Off. Rep. 1861, 485. Durand, ll. cc. 484, 56 & 63. Engelm. in Am. Naturalist, 2. 322; Rep. Miss. Entom. 1872, 61. Young, Fl. Texas, 201. Planch. l. c. 111.

V. vulpina. Linn. Spec. 203, in part, fide Planch. l. c. 109. Marsh. Arbust. 165. Walter, 243. Ait. Hort. Kew. 1. 282. Lam. Ill. 2. 134. Moench, Meth. 75. Willd. Spec. 1. 1181; Enum. 267. Persoon, 1. 253. Poir. Dict. 8. 607. Röm. & Schult Syst. 5. 317. Loisel. Nouv. Duham. 7. 211. Spreng. Syst. 1. 778. Raf. Med. Bot. 2. 132. Torr. & Gray, Fl. 1. 245. Dietr. 1. 832. Eat. & Wr. 480. Curtis, Bot. N. Car. 113. Chapman, 71. Lesqx. Fl. Ark. 353. Miquel, Ann. Mus. Lugd.-Bat. 1. 93. Gray, Manual, 113; Hall's Pl. Tex. 5. Engelm. in Am. Naturalist, 2. 321 & 9. 269; Rep. Miss. Entom. 1872, 62. Regel, Conspect. Vitis, 394.

V. rotundifolia. Michx. Fl. 2. 231. Poir. Dict. 8. 609. Pursh, 169. Elliott, 2. 687. DC. Prodr. 1. 635. Audubon, Birds, t. **44.** Spreng. Syst. 1. 777. Spach, Hist. Veg. 3. 330. Don, Mill. 1. 711. Hook. Jour. Bot. 1. 200. Dietr. 1. 832. Loud. Arbor. 1. 480. Le Conte, Proc. Acad. Philad. 1853, 273 (Regensb. Flora, 36. 709). Buckley, Pat. Off. Rep. 1861, 484. Durand, ll. cc. 484 & 56. Jacques, Am. Naturalist, 1. 638, **fig.** Planch. l. c. 109.

V. æstivalis; Arizonica.
bicolor; æstivalis.
bipinnata; arborea.
bracteata; Labrusca.
Caribæa; Californica.
cordifolia; riparia.
coriacea; candicans.
hederacea; Ampelopsis quinquefolia.
heterophylla; indivisa.
incisa; riparia.
intermedia; æstivalis.
Labrusca; æstivalis, candicans & Caribæa.
labruscoides, laciniosa & *Linsecumii;* æstivalis.
V. monticola; æstivalis.
Mustangensis; candicans.
odoratissima; riparia.
orientalis; arborea.
palmata; æstivalis, Labrusca.
pinnata; arborea.
pullata; Labrusca.
quinquefolia; Ampelopsis quinquefolia.
rotundifolia; vulpina.
sinuata; æstivalis.
taurina & *tenuifolia;* Labrusca.
vinifera & *Virginiana;* æstivalis.
vulpina; æstivalis, riparia & cordifolia.

SAPINDACEÆ.

ACER circinatum. Pursh, 266. Poir. Suppl. 5. 669. Nutt. Genera, 1. 253; Jour. Acad. Philad. 7. 16, excl. syn.; Sylva, 2. 80, t. **68.** DC. Prodr. 1. 595. Spreng. Syst. 2. 225. Hook. Fl. Bor.-Am. 1. 112, t. **39.** Don, Mill. 1. 651. Spach.

Ann. Sci. Nat. 2. 2. 166; Hist. Veg. 3. 97. Torr. & Gray, Fl 1. 247. Eat. & Wr. 112. Dietr. 2. 1282. Loud. Arbor. 1. 422, **f. 112, 127.** Richard. Arct. Exped. 422. Lindl. in Paxt. Fl. Gard. 2. 146, **f. 211** (Fl. Serres, 7. 210, **fig.**). Newberry, Pac. R. Rep. 6. 21 & 69. Cooper, same, 12. 28 & 57. Gray, Proc. Am. Acad. 8. 379. Torrey, Bot. Wilkes, 258.

A. dasycarpum. Ehrh. Beitr. 4. 24. Moench, Meth. 56. Persoon, 1. 417. Willd. Spec. 4. 985; Enum. 1044. Ait. f. Hort. Kew. 5. 446. Pursh, 266. Nutt. Genera, 1. 252; Sylva, 2. 87. Elliott, 1. 449. Bigel. Fl. Bost. 379. Torrey, Fl. U. S. 396; Fl. N. Y. 1. 136, **t. 18**; Nicol. Rep. 147. Spreng. Syst. 2. 225. Tausch, Regensb. Flora, 12². 553. Hook. Fl. Bor.-Am. 1. 113; Jour. Bot. 1. 200. Torr. & Gray, Fl. 1. 248. Eat. & Wr. 112. Loud. Arbor. 1. 423, **t. 37, 38** & **fig. 129.** Emerson, Mass. Trees, 487. Richard. Arct. Exped. 423. Parry, Pl. Minn. 610. Curtis, Bot. N. Car. 51. Chapman, 81. Buchenau, Bot. Zeit. 19. 285, **t. 11, figs.** Gray, Struct. Bot. 410, **fig. 781–788**; Manual, 119.

A. saccharinum. Linn. Spec. 1055, fide herb.

A. rubrum, var. *pallidum.* Ait. Hort. Kew. 3. 434.

A. eriocarpum. Michx. Fl. 2. 253. Desf. in Ann. Mus. 7. 412, **t. 25, f. 1.** Poir. Suppl. 2. 573. Tratt. Archiv. 1, **t. 8.** Michx. f. Arbr. Amer. 2. 205, **t. 13.** Loisel. Nouv. Duham. 4. 30. DC. Prodr. 1. 595. Don, Mill. 1. 650. Beck, Bot. 63. Spach, Hist. Veg. 3. 116; Ann. Sci. Nat. 2. 2. 177. Darling. Fl. Cestr. 245. Dietr. 2. 1282. Meehan, Proc. Acad. Philad. 1868, 140.

A. glabrum. Torrey, Ann. Lyc. N. Y. 2. 172; Bot. Wilkes, 259. Don, Mill. 1. 650. Torr. & Gray, Fl. 1. 247 & 684. Eat. & Wr. 112. Walp. Rep. 1. 409. Nutt. Sylva, 2. 86. Engelm. Pl. Upp. Miss. 187. Newberry, Pac. R. Rep. 6. 69. Cooper, same, 12. 51 & 57; Am. Naturalist, 3. 406. Gray, Am. Jour. Sci. 2. 34. 259; Proc. Acad. Philad. 1863, 59. Boland. Cat. 8. Porter, Hayd. Rep. 1870, 474; 1871, 480; Fl. Col. 19. Watson, King's Rep. 5. 52. Coulter, Hayd. Rep. 1872, 763. Rothrock, Pl. Wheel. 36.

A. barbatum. Dougl.; Hook. Fl. Bor.-Am. 1. 113. Loud. Arbor. 1. 420, **f. 125,** excl. syn.

A. Douglasii. Hook. in Lond. Jour. Bot. 6. 77, **t. 6.**

A. tripartitum. Nutt.; Torr. & Gray, Fl. 1. 247. Dietr. 2. 1281. Eat. & Wr. 112. Walp. Rep. 1. 409. Gray, Pl. Fendl. 28; Pac. R. Rep. 4. 73. Nutt. Sylva, 2. 85, **t. 71.** Newberry, Pac. R. Rep. 6. 69.

A. grandidentatum. Nutt.; Torr. & Gray, Fl. 1. 247. Dietr. 2. 1283. Eat. & Wr. 112. Walp. Rep. 1. 409. Nutt. Sylva, 2. 82, **t. 69.** Watson, King's Rep. 5. 52; Pl. Wheel. 7. Porter, Hayd. Rep. 1871, 480. Parry, Am. Nat. 9. 201 & 268.

A. macrophyllum. Pursh, 267. Poir. Suppl. 5. 669. Nutt. Genera, 1. 253; Sylva, 2. 77, **t. 67.** DC. Prodr. 1. 594. Spreng. Syst. 2. 225. Hook. Fl. Bor.-Am. 1. 112, **t. 38.** Don, Mill. 1. 648. Spach, Ann. Sci. Nat. 2. 2. 165. Torr. & Gray, Fl. 1. 246. Hook. & Arn. Bot. Beechey, 327. Dietr. 2. 1281. Eat. & Wr. 112. Loud. Arbor. 1. 408, **t. 28, f. 117, 118.** Benth. Pl. Hartw. 301. Richard. Arct. Exped. 423. Durand, Pl. Pratten. 84. Torrey, Pac. R. Rep. 4. 74; Mex. Bound. 47; Bot. Wilkes, 258. Newberry, Pac. R. Rep. 6. 21 & 69. Cooper, same, 12. 28 & 57. Boland. Proc. Calif. Acad. 3. 78; Cat. 8. Rothr. Alaska, 434. Wood, Bot. & Fl. 74. Gray, Proc. Am. Acad. 8. 379.

? *A. Murrayanum*, Hort. "Farmer, 1867, 821" (Gard. Chronicle, 1873, 1632).

A. Mexicanum. Gray, Proc. Am. Acad. 5. 176. (Northeastern Mexico.)

A. Pennsylvanicum. Linn. Spec. 1055. Ait. Hort. Kew. 3. 435. Michx. Fl. 2. 252. Willd. Spec. 4. 989; Enum. 1045. Loisel. Nouv. Duham. 4. 32. Tratt. Archiv. 1, **t. 11.** Elliott, 1. 451. Torrey, Fl. U. S. 397; Fl. N. Y. 1. 135. Spreng.

Syst. 2. 224. Hook. Fl. Bor.-Am. 1. 111. Torr. & Gray, Fl. 1. 246. Emerson, Mass. Trees, 496. Gray, Genera, 2. 200, **t. 174, f. 1–3** (fl.); Manual, 119. Richard. Arct. Exped. 422. Curtis, Bot. N. Car. 52. Chapman, 80. Buchenau, Bot. Zeit. 19. 285, **t. 11, f. 24.**

A. Canadense. Marsh. Arbust. 4.

A. striatum. DuRoi, Diss. 58; Harbk. 1. 8, **t. 1.** Wangenh. Amer. 29, **t. 12, f. 2.** Lam. Dict. 2. 381. Ehrh. Beitr. 4. 25. Moench, Meth. 56. Persoon, 1. 417. Michx. f. Arbr. Amer. 2. 242, **t. 17.** Pursh, 267. Nutt. Genera, 1. 253. DC. Prodr. 1. 593. Bigel. Fl. Bost. 379. Watson, Dendr. **t. 70.** Don, Mill. 1. 648. Beck, Bot. 64. Spach, Hist. Veg. 3. 85; Ann. Sci. Nat. 2. 2. 162. Dietr. 2. 1281. Eat. & Wr. 112. Loud. Arbor. 1. 407, **t. 27** & **f. 116.**

A. rubrum. Linn. Spec. 1055. DuRoi, Diss. 59. Marsh. Arbust. 3. Lam. Dict. 2. 380; Ill. **t. 844, f. 3.** Ehrh. Beitr. 4. 23. Ait. Hort. Kew. 3. 434, excl. var. Moench, Meth. 56. Michx. Fl. 2. 253. Persoon, 1. 417. Loisel. Nouv. Duham. 4. 31. Willd. Spec. 4. 984; Enum. 1044. Desf. in Ann. Mus. 7. 413, **t. 25, f. 2.** Poir. Suppl. 2. 574. Tratt. Archiv. 1, **t. 9.** Michx. f. Arbr. Amer. 2. 210, **t. 14.** Pursh, 265. Bigel. Fl. Bost. 377. Nutt. Genera, 1. 252. Elliott, 1. 449. James, Long's Exped. 2. 345. Torrey, Fl. U. S. 395; Fl. N. Y. 1. 137. Watson, Dendr. **t. 169.** Spreng. Syst. 2. 225. Audubon, Birds, **t. 54, 67.** Tausch, Regensb. Flora, 12². 552. Hook. Fl. Bor.-Am. 1. 114; Jour. Bot. 1. 199. Don, Mill. 1. 650. Beck, Bot. 63. Spach, Hist. Veg. 3. 113; Ann. Sci. Nat. 2. 2. 176. Darling. Fl. Cestr. 244. Torr. & Gray, Fl. 1. 249 & 684. Dietr. 2. 1282. Eat. & Wr. 112. Walp. Rep. 1. 409. Loud. Arbor. 1. 424, **t. 39, 40** & **f. 130.** Emerson, Mass. Trees, 483. Richard. Arct. Exped. 422. Nutt. Sylva, 2. 87. Engelm. Pl. Upp. Miss. 187. Curtis, Bot. N. Car. 50. Chapman, 81. Buchenau, Bot. Zeit. 19. 285, **t. 11, figs.** Pl. Bourgeau, 255. Gray, Manual, 119.

? *A. glaucum.* Marsh. Arbust. 2.

? *A. Carolinianum.* Walter, 251.

A. coccineum. Michx. f. Arbr. Amer. 2. 203.

A. sanguineum. Spach, Ann. Sci. Nat. 2. 2. 176; Hist. Veg. 3. 115. Dietr. 2. 1282.

A. Drummondii. Hook. & Arn. in Hook. Jour. Bot. 1. 199. Nutt. Sylva, 2. 83, **t. 70.**

A. saccharinum. Wangenh. Amer. 36, **t. 11, f. 26.** Lam. Dict. 2. 379. Walter, 251. Ait. Hort. Kew. 3. 434. Ehrh. Beitr. 4. 24. Persoon, 1. 417. Loisel. Nouv. Duham. 4. 29, **t. 8.** Willd. Spec. 4. 985; Enum. 1044. Tratt. Archiv. 1, **t. 3.** Michx. f. Arbr. Amer. 2. 218, **t. 15.** Pursh, 266. Bigel. Fl. Bost. 378. Elliott, 1. 450. Richard. Frankl. Journ. 26; Arct. Exped. 422. DC. Prodr. 1. 595. Torrey, Fl. U. S. 396; Fl. N. Y. 1. 135. Spreng. Syst. 2. 225. Hook. Fl. Bor.-Am. 1. 113. Don, Mill. 1. 650. Beck, Bot. 63. Spach, Il. cc. 170 & 99. Darling. Fl. Cestr. 245. Torr. & Gray, Fl. 1. 248. Eat. & Wr. 112. Dietr. 2. 1282. Walp. Rep. 1. 410. Nees, Pl. Wied, 5. Loud. Arbor. 1. 411, **t. 31** & **f. 122.** Emerson, Mass. Trees, 489. Gray, Genera, 2. 200, **t. 174**; Manual, 119. Nutt. Sylva, 2. 88. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 187. Chapman, 80.

A. saccharum. Marsh. Arbust. 4.

A. barbatum. Michx. Fl. 2. 252. Willd. Spec. 4. 989. Poir. Suppl. 2. 575. Pursh, 266. Elliott, 1. 451. DC. Prodr. 1. 595. Torrey, Fl. U. S. 396. Spreng. Syst. 2. 224. Don, Mill. 1. 649. Beck, Bot. 63. Spach, Il. cc. 178 & 118. Torr. & Gray, Fl. 1. 249 & 684. Eat. & Wr. 112. Curtis, Bot. N. Car. 51.

Var. **nigrum.** Torr. & Gray, Fl. 1. 248. Torrey, Fl. N. Y. 1. 136. Gray, Manual, 119.

A. saccharinum. Michx. Fl. 2. 252.

A. nigrum. Michx. f. Arbr. Amer. 2. 238, **t. 16.** Pursh, 266. Poir. Suppl. 5. 669. Nutt. Genera, 1. 253. Elliott, 1. 450. DC. Prodr. 1. 595. Torrey, Fl. U. S. 397. Spreng. Syst. 2. 225. Don, Mill. 1. 650. Beck, Bot. 63. Spach, Il. ec. 170 & 104. Dietr. 2. 1282. Eat. & Wr. 112. Gray, Am. Naturalist, 6. 767 & 7. 422.

Var. **Floridanum.** Chapman, 80.

A. spicatum. Lam. Dict. 2. 381. Ait. Hort. Kew. 3. 435. Persoon, 1. 417. DC. Prodr. 1. 593. Guimp. Otto & Hayne, **t. 48.** Don. Mill. 1. 648. Audubon, Birds, **t. 134.** Beck, Bot. 64. Spach, Il. ec. 163 & 87. Torr. & Gray, Fl. 1. 246. Dietr. 2. 1281. Eat. & Wr. 112. Torrey, Fl. N. Y. 1. 135. Loud. Arbor. 1. 406, **t. 26.** Emerson, Mass. Trees, 497. Richard. Arct. Exped. 422. Curtis, Bot. N. Car. 52. Chapman, 80. Pl. Bourgeau, 255. Gray, Manual, 119.

A. Pennsylvanicum. DuRoi, Diss. 61; Harbk. 1. 22, **t. 1.** Wangenh. Amer. **t. 12, f. 30.** Marsh. Arbust. 2.

A. parviflorum. Ehrh. Beitr. 4. 25 & 6. 40. Moench, Meth. 56.

A. montanum. Ait. Hort. Kew. 3. 435. Michx. Fl. 2. 253. Willd. Spec. 4. 988; Enum. 1045. Loisel. Nouv. Duham. 4. 33. Tratt. Archiv. 1, **t. 13.** Pursh, 267. Elliott, 1. 452. Bigel. Fl. Bost. 379. Torrey, Fl. U. S. 398. Spreng. Syst. 2. 224. Hook. Fl. Bor.-Am. 1. 111.

A. barbatum; glabrum, saccharinum.
Californicum; Negundo Californicum.
Canadense; Pennsylvanicum.
Carolinianum & *coccineum;* rubrum.
Douglasii; glabrum.
Drummondii; rubrum.
eriocarpum; dasycarpum.
glaucum; rubrum.
montanum; spicatum.
A. Murrayanum; macrophyllum.
Negundo; Negundo aceroides.
nigrum; saccharinum.
parviflorum & *Pennsylvanicum;* spicatum.
rubrum & *saccharinum;* dasycarpum.
sanguineum; rubrum.
striatum; Pennsylvanicum.
tripartitum; glabrum.

ÆSCULUS arguta. Buckley, Proc. Acad. Philad. 1860, 443. Young, Fl. Texas, 209.

? *Æ. glabra.* Gray, Hall's Pl. Tex. 5.

Æ. Californica. Nutt.; Torr. & Gray, Fl. 1. 251. Hook. & Arn. Bot. Beechey, 327. Dietr. 2. 1225. Eat. & Wr. 116. Walp. Rep. 1. 424. Benth. Bot. Sulph. 9; Pl. Hartw. 301. Nutt. Sylva, 2. 69, **t. 64.** Durand, Pl. Pratten. 85. Rev. Hort. 4. 150, **f. 10, 11.** Torrey, Pac. R. Rep. 4. 74; Mex. Bound. 48; Bot. Wilkes, 260. Newberry, Pac. R. Rep. 6. 20 & 69, **f. 1.** Hook. Bot. Mag. **t. 5077.** Fl. Serres, 13. 39, **t. 1312.** Gray, Proc. Bost. Soc. Nat. Hist. 7. 146. Boland. Proc. Calif. Acad. 3. 78; Cat. 8. Walp. Ann. 7. 624.

Calothyrsus Californicus. Spach, Rev. Hipp. in Ann. Sci. Nat. 2. 2. 62; Hist. Veg. 3. 35.

Pavia Californica. Hartw. in Jour. Hort. Soc. Lond. 2. 123. Carrière, Rev. Hort. 1862, 369, **fig.**

Æ. flava. Ait. Hort. Kew. 1. 494. Willd. Berl. Baum. 13; Spec. 2. 286; Enum. 405. Barton, Bot. Appx. 26, **t. 15, f. 2.** Pursh, 255. Elliott, 1. 436. James, Long's Exped. 1. 317. Guimp. Otto & Hayne, **t. 23.** Watson, Dendr. **t. 163.** Lodd. Cab. **t. 1280.** Torr. & Gray, Fl. 1. 252. Dietr. 2. 1225. Eat. & Wr. 116.

Walp. Rep. 1. 424. Torrey, Pac. R. Rep. 4. 74. Curtis, Bot. N. Car. 48. Chapman, 80. Gray, Manual, 118.

Æ. octandra. Marsh. Arbust. 4.

Pavia flava. Moench, Meth. 66. DC. Prodr. 1. 598. Don, Mill. 1. 653. Spach, ll. cc. 55 & 25. Loud. Arbor. 1. 471, **t. 54, 55.**

Æ. lutea. Wangenh. in Act. Nat. Scrut. Berol. 8. 133, **t. 6.** Michx. Fl. 1. 219. Persoon, 1. 403.

Pavia lutea. Poir. Dict. 5. 94. Nouv. Duham. 3. 155, **t. 38.** Michx. f. Arbr. Amer. 3. 237, **t. 11.**

Æ. neglecta. Lindl. Bot. Reg. 12, **t. 1009.**

Pavia neglecta. Don, Mill. 1. 653. Spach, ll. cc. 55 & 24. Loud. Arbor. 1. 472.

Var. **purpurascens.** Gray, Manual, 118.

Æ. hybrida. DC. Hort. Monsp. 1813, 75. Poir. Suppl. 4. 334.

Æ. discolor. Pursh, 255. Ker, Bot. Reg. 4, **t. 310.** Elliott, 1. 436. Spreng. Syst. 2. 167. Eat. & Wr. 116. Del. Sem. Hort. Marb. 1853 (Linn. 26. 751). Walp. Ann. 4. 381.

Pavia discolor. Poir. Suppl. 5. 769. Don, Mill. 1. 653. Spach, ll. cc. 57 & 28. Loud. Arbor. 1. 472.

Pavia hybrida. DC. Prodr. 1. 598. Don, Mill. 1. 653. Spach, ll. cc 56 & 27. Eat. & Wr. 116. Loud. Arbor. 1. 472.

Æ. Pavia, var. *discolor.* Torr. & Gray, Fl. 1. 252. Walp. Rep. 1. 424.

Æ. glabra. Willd. Enum. 405. Pursh, 255. DC. Prodr. 1. 597. Torrey, Fl. U. S. 384. Guimp. Otto & Hayne, **t. 24.** Spreng. Syst. 2. 166. Don, Mill. 1. 652. Beck, Bot. 65. Torr. & Gray, Fl. 1. 251. Dietr. 2. 1225. Eat. & Wr. 115. Walp. Rep. 1. 424. Loud. Arbor. 1. 467, **f. 133.** Gray, Genera, 2. 207, **t. 176, 177**; Manual, 118. Engelm. Pl. Upp. Miss. 187. Chapman, 79.

Æ. pallida. Willd. Enum. 406. DC. Prodr. 1. 597. Guimp. Otto & Hayne, **t. 25.** Spreng. Syst. 2. 166. Don, Mill. 1. 650. Lindl. Bot. Reg. 24, **t. 51.** Loud. Arbor. 1. 468, **f. 134.**

Æ. echinata. Muhl. Cat. 38.

Æ. Ohioensis. Michx. f. Arbr. Amer. 3. 242. Poir. Suppl. 3. 593. DC. Prodr. 1. 597. Don, Mill. 1. 652. Riddell, Syn. Fl. West. States, 34. Loud. Arbor. 1. 467. Nutt. Sylva, 2. 71.

? *Æ. carnea.* Guimp. Otto & Hayne, **t. 22.** Lindl. Bot. Reg. 13, **t. 1056.** Watson, Dendr. **t. 121.** Don, Mill. 1. 652. Torr. & Gray, Fl. 1. 253. Walp. Rep. 1. 425.

? *Æ. rubicunda.* Loisel. Herb. Amat. **t. 367.** DC. Rapp. Jard. Gen. 1823, 8; Prodr. 1. 597; Rar. Pl. Gen. 88, **t. 24.** Spreng. Syst. 2. 166. Lodd. Cab. **t. 1242.** Don, Mill. 1. 652. Dietr. 2. 1225. Loud. Arbor. 1. 467, **t. 50.**

Pavia glabra & *pallida.* Spach, Ann. Sci. Nat. 2. 2. 54; Hist. Veg. 3. 23.

? *Pavia carnea.* Spach, ll. cc. 53 & 22. Don in Sweet's Brit. Fl. Gard. 2 ser. **t. 301.**

? *Pavia Watsoniana.* Spach, ll. cc. 53 & 21. Torr. & Gray, Fl. 1. 253.

? *Æ. Watsoniana.* Dietr. 2. 1225. Walp. Rep. 1. 425.

Æ. parviflora. Walter, 128. Barton, Bot. Appx. 26, **t. 15.** Ait. f. Hort. Kew. 2. 335. Torr. & Gray, Fl. 1. 251. Dietr. 2. 1255. Walp. Rep. 1. 424. Chapman, 80. Wood, Cl.-Book, 288; Bot. & Fl. 75.

Æ. macrostachya. Michx. Fl. 1. 220. Persoon, 1. 403. Jacq. Ecl. Am. 1. 17, **t. 9.** Poir. Suppl. 4. 334. Bot. Mag. **t. 2118.** Elliott, 1. 436. Colla, Hort. Ripul. **t. 19.** Guimp. Otto & Hayne, **t. 26.** Spreng. Syst. 2. 166. Eat. & Wr. 116. Nutt. Sylva, 2. 71.

Pavia alba. Poir. Dict. 5. 95. Nouv. Duham. 3. 156.

Pavia macrostachya. Loisel. Herb. Amat. t. **212**. DC. Prodr. 1. 598. Don, Mill. 1. 652. Loud. Arbor. 1. 473, f. **137**.

Macrothyrsus discolor. Spach, ll. cc. 61 & 34.

Æ. Pavia. Linn. Spec. 344. Marsh. Arbust. 5. Walter, 128. Ait. Hort. Kew. 1. 404. Swartz, Obs. Bot. 140. Willd. Berl. Baum, t. **12**; Spec. 2. 286; Enum. 404. Michx. Fl. 1. 219. Barton, Bot. Appx. 26, t. **15**, f. **3**. Persoon, 1. 403. Pursh, 254. Elliott, 1. 435. Watson, Dendr. t. **120** & **1643**. Guimp. Otto & Hayne, t. **21**. Lindl. Bot. Reg. 12, t. **993**. Spreng. Syst. 2. 166. Audubon, Birds, t. **78**. Torr. & Gray, Fl. 1. 252. Dietr. 2. 1225. Walp. Rep. 1. 424. Curtis, Bot. N. Car. 48. Chapman, 79. Gray, Struct. Bot. 409, f. **773–780**; Manual, 118.

Pavia rubra. Lam. Ill. 2. 407, t. **273**. Moench, Meth. 65. Poir. Dict. 5. 94. Nouv. Duham, 3. 154. DC. Prodr. 1. 598. Turpin, Dict. Sci. Nat. 38. 159, t. **165**, **166**. Don, Mill. 1. 653. Hook. Jour. Bot. 1. 200. Eat. & Wr. 116. Loud. Arbor. 1. 469, t. **51**, **52** & f. **135**.

? *Æ. humilis.* Lodd. Cat.; Lindl. Bot. Reg. 12, t. **1018**. Torr. & Gray, Fl. 1. 253. Walp. Rep. 1. 425.

? *Pavia humilis.* Don in Loud. Hort. Brit. 143; Mill. 1. 653. Spach, Hist. Veg. 3. 31. Dietr. 2. 1225.

Pavia atropurpurea, Lindleyana, Willdenoviana, lucida, intermedia, & *Michauxii.* Spach, Ann. Sci. Nat. 2. 2. 56–60; Hist. Veg. 3. 27–33.

? *Pavia livida, mutabilis* & *versicolor.* Spach, ll. cc. 55 & 26.

? *Æ. versicolor.* Del. Sem. Hort. Marb. 1853 (Linn. 26. 751). Walp. Ann. 4. 381.

Æ. carnea & *echinata;* glabra.
discolor; flava.
glabra; arguta.
humilis; Pavia.
hybrida & *lutea;* flava.
macrostachya; parviflora.

Æ. neglecta & *octandra;* flava.
Ohioensis & *pallida;* glabra.
Pavia; flava.
rubicunda; glabra.
versicolor; Pavia.
Watsoniana; glabra.

CARDIOSPERMUM Halicacabum. Linn. Spec. 366. See syn. in Blume, Rumphia, 3. 183 (Walp. Ann. 2. 207); Griseb. Fl. Brit. W. Ind. 122.—Michx. Fl. 1. 242. Nutt. Genera, 1. 257. Elliott, 1. 460. James, Long's Exped. 3. 8; Cat. 180. DC. Prodr. 1. 601. Torrey, Ann. Lyc. N. Y. 2. 172; Pac. R. Rep. 4. 74; Mex. Bound. 47. Torr. & Gray, Fl. 1. 254. Eat. & Wr. 169. Gray, Genera, 2. 216, t. **181**. Scheele, Röm. Texas, 433. Chapman, 79. Wood, Cl.-Book, 289; Bot. & Fl. 75.

Var. **microcarpum.** Blume, l. c.

C. microcarpum. HBK. Nov. Gen. 5. 104. DC. Prodr. 1. 601. Griseb. l. c. 122.

C. tortuosum. Benth. Bot. Sulph. 9, t. **6**. Gray, Proc. Am. Acad. 5. 155. (Lower California.)

DODONÆA viscosa. Linn. Mant. 238. See syn. in DC. Prodr. 1. 616; Gray, Bot. Wilkes' Expl. Exped. 260; Benth. Fl. Austr. 475; Griseb. Fl. Brit. W. Ind. 127.—Torr. & Gray, Fl. 1. 255. Eat. & Wr. 227. Gray, Genera, 2. 218, t. **182**. Chapman, 77.

D. Burmanniana. DC. Prodr. 1. 616. Griseb. l. c. 127.

D. Schiedeana. Schlecht. in Linn. 18. 49. Walp. Rep. 1. 369. Torrey, Mex. Bound. 48.

HYPELATE paniculata. Cambess. Mem. Sapind. 32. Don, Mill. 1. 671. Chapman, 78. Griseb. Fl. Brit. W. Ind. 127, with syn.

Melicocca paniculata. Juss. Mem. Mus. 3. 187, **t. 5.** DC. Prodr. 1. 615. Nutt. Sylva, 2. 74, **t. 65.**

Exothea oblongifolia. Macf. Fl. Jam. 232.

H. oblongifolia. Hook. in Lond. Jour. Bot. 3. 226, **t. 7.**

H. trifoliata. Swartz, Fl. Ind. Occ. 2. 655, **t. 14.** Deless. Icon. 3, **t. 39.** DC. Prodr. 1. 614. Chapman, 78. Griseb. l. c. 127.

NEGUNDO aceroides. Moench, Meth. 334. Torr. & Gray, Fl. 1. 250. Eat. & Wr. 327. Torrey, Nicol. Rep. 147; Frem. Rep. 88; Pac. R. Rep. 4. 73. Gray, Pl. Lindh. 166; Pl. Fendl. 29; Genera, 2. 202, **t. 175**; Pl. Thurb. 300; Pac. R. Rep. 12. 41; Manual, 120. Richard. Arct. Exped. 423. Parry, Pl. Minn. 610. Nutt. Sylva, 2. 91. Engelm. Pl. Upp. Miss. 188. Curtis, Bot. N. Car. 53. Chapman, 81. Pl. Bourgeau, 255. Cooper, Am. Naturalist, 3. 306. Porter, Hayd. Rep. 1870, 474; Fl. Col. 19. Watson, King's Rep. 5. 52; Pl. Wheel. 7.

Acer Negundo. Linn. Spec. 1056. Wangenh. Amer. 30, **t. 12, f. 29.** Marsh. Arbust. 2. Lam. Dict. 2. 380. Walter, 250. Ait. Hort. Kew. 3. 436. Michx. Fl. 2. 253. Persoon, 1. 418. Willd. Spec. 4. 992. Nouv. Duham. 4. 27, **t. 7.** Tratt. Archiv. 1, **t. 40.** Michx. f. Arbr. Amer. 2. 247, **t. 18.** Pursh, 268. Elliott, 1. 432. James, Cat. 180; Long's Exped. 2. 194. Torrey, Fl. U. S. 298; Ann. Lyc. N. Y. 2. 172; Emory's Rep. 407. Spreng. Syst. 2. 225. Guimp. Otto & Hayne, **t. 95.** Dietr. 2. 1283. Loud. Arbor. 1. 460, **t. 46, 47.** Buchenau, Bot. Zeit. 19. 285, **t. 11, figs.** Baill. Hist. Pl. 5. 374, **f. 426.**

Negundium fraxinifolium. Raf. Med. Rep. 5. 354. Desv. Journ. Bot. 5. 170.

Negundo fraxinifolium. Nutt. Genera, 1. 253. DC. Prodr. 1. 596. Hook. Fl. Bor.-Am. 1. 114; Jour. Bot. 1. 200. Don, Mill. 1. 651. Beck, Bot. 64. Spach, Hist. Veg. 3. 119. Scheele, Röm. Texas, 433. Schnizl. Icon. **t. 227, f. 2, 13.**

N. Californicum. Torr. & Gray, Fl. 1. 250 & 684. Hook. & Arn. Bot. Beechey, 327, **t. 77.** Eat. & Wr. 327. Walp. Rep. 1. 410. Benth. Pl. Hartw. 301. Scheele, Röm. Texas, 433? Nutt. Sylva, 2. 90, **t. 72.**

Acer Californicum. Dietr. 2. 1283.

Negundo aceroides. Torrey, Pac. R. Rep. 4. 74; Mex. Bound. 47; Bot. Wilkes, 259. Boland. Proc. Calif. Acad. 3. 78; Cat. 8. Anderson, Cat. 119.

PAULLINIA subalata. Gray, in herb.

Serjania —— ? Gray, Pl. Wright. 1. 38.

SAPINDUS marginatus. Willd. Enum. 432. Muhl. Cat. 41. DC. Prodr. 1. 607. Spreng. Syst. 2. 259. Don, Mill. 1. 665. Torr. & Gray, Fl. 1. 255 & 685. Pac. R. Rep. 2. 162. Eat. & Wr. 411. Leavenworth, Am. Jour. Sci. 1. 49. 130. Engelm. & Gray, Pl. Lindh. 33. Gray, Pl. Lindh. 168; Genera, 2. 214, **t. 130**; Pl. Wright. 1. 38; Hall's Pl. Tex. 5. Engelm. in Wisliz. Rep. 12. Torrey, Emory's Rep. 138; Marcy's Rep. 282; Pac. R. Rep. 4. 2. & 74; Mex. Bound. 47. Nutt. Sylva, 2. 72, **t. 66.** Chapman, 79. Wood, Cl.-Book, 288; Bot. & Fl. 75.

S. Saponaria. Lam. Ill. 2. 441, **t. 307,** not Linn. Michx. Fl. 1. 242. Poir. Dict. 6. 663, in part. Persoon, 1. 444. Pursh, 274. Nutt. Genera, 1. 257. Elliott, 1. 460. Torrey, Ann. Lyc. N. Y. 2. 172.

S. inæqualis. DC. Prodr. 1. 608.

S. fideatus. Raf. Med. Bot. 2. 261.

S. Drummondii. Hook. & Arn. Bot. Beechey, 281, excl. var. Walp. Rep. 1. 417.

SERJANIA incisa. Torrey, Mex. Bound. 47.

S. racemosa. Schum. Act. Soc. Nat. Hafn. 3. 127, **t. 12, f. 3.** DC. Prodr. 1. 603. Benth. Pl. Hartw. 15. Gray, Pl. Wright. 1. 38.

STAPHYLEA Bolanderi. Gray, Proc. Am. Acad. 10. 69.

S. trifolia. Linn. Spec. 270. Marsh. Arbust. 148. Walter, 117. Ait. Hort. Kew. 1. 375. Schmidt, Arb. **t. 81.** Willd. Spec. 1. 1498; Enum. 329. Michx. Fl. 1. 184. Persoon, 1. 329. Poir. Dict. 7. 393. Pursh, 206. Nutt. Genera, 1. 204. Röm. & Schult. Syst. 6. 668. Elliott, 1. 369. Bigel. Fl. Bost. 121. Torrey, Fl. U. S. 325; Fl. N. Y. 1. 139, **t. 19**; Nicol. Rep. 147. DC. Prodr. 2. 2. Spreng. Syst. 1. 944. Hook. Fl. Bor.-Am. 1. 119. Don, Mill. 2. 2. Beck, Bot. 73. Spach, Hist. Veg. 2. 396. Darling. Fl. Cestr. 209. Torr. & Gray, Fl. 1. 256. Dietr. 2. 1002. Eat. & Wr. 442. Loud. Arbor. 1. 493, **f. 161, 162.** Emerson, Mass. Trees, 477. Gray, Pl. Fendl. 29; Genera, 2. 192, **t. 172**; Pac. R. Rep. 12. 41; Manual, 117. Richard. Arct. Exped. 423. Engelm. Pl. Upp. Miss. 187. Curtis, Bot. N. Car. 107. Chapman, 78.

Staphylodendrum trifoliatum. Moench, Meth. 64.

UNGNADJA speciosa. Endl. Atakt. Bot. **t. 36**; Nov. Stirp. Dec. 9. 75. Torr. & Gray, Fl. 1. 684; Pac. R. Rep. 2. 162. Walp. Rep. 5. 371. Gray, Pl. Lindh. 167; Genera, 2. 211, **t. 178, 179**; Pl. Wright. 1. 38 & 2. 30; Pl. Thurb. 299; Hall's Pl. Tex. 5. Fl. Serres, 10. 217, **t. 1059.** Torrey, Mex. Bound. 48. Schmizl. Icon. **t. 230, f. 2, 8.** Baill. Hist. Pl. 5. 423.

U. heterophylla. Scheele, Linn. 21. 589.

U. heptaphylla. Scheele, Linn. 22. 352; Röm. Texas, 432.

URVILLEA Mexicana. Gray, Pl. Wright. 1. 38. Walp. Ann. 4. 376. Torrey, Mex. Bound. 48.

ANACARDIACEÆ.

PISTACIA Mexicana. HBK. Nov. Gen. 7. 22, **t. 608.** DC. Prodr. 2. 64. Gray, Pl. Wright. 2. 27. Torrey, Mex. Bound. 44.

RHUS aromatica. Ait. Hort. Kew. 1. 367. Willd. Spec. 1. 1482. Michx. Fl. 1. 184. Persoon, 1. 325. Turpin, Ann. Mus. 5. 445, **t. 30.** Nouv. Duham. 2. 170. Poir. Dict. 7. 511. Pursh, 205. Nutt. Genera, 1. 203. Röm. & Schult. Syst. 6. 652. Elliott, 1. 364. Torrey, Fl. U. S. 324; Fl. N. Y. 1. 131; Emory's Rep. 407. DC. Prodr. 2. 73. Spreng. Syst. 1. 938. Hook. Fl. Bor.-Am. 1. 127. Don, Mill. 2. 75. Beck, Bot. 75. Spach, Hist. Veg. 2. 222. Torr. & Gray, Fl. 1. 219 & 681. Dietr. 2. 1006. Eat. & Wr. 392. Nees, Pl. Wied, 5. Loud. Arbor. 2. 557. Emerson, Mass. Trees, 507. Gray, Genera, 2. 160, **t. 160**; Pac. R. Rep. 12. 41; Manual, 112. Richard. Arct. Exped. 424. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 187. Chapman, 69.

R. Canadensis. Marsh. Arbust. 129.

R. suaveolens. Ait. Hort. Kew. 1. 368. Willd. Spec. 1. 1482; Enum. 324. Persoon, 1. 325. Nouv. Duham. 2. 170. Poir. Dict. 7. 512. DC. Prodr. 2. 72. Spreng. Syst. 1. 938. Don, Mill. 2. 75. Spach, Hist. Veg. 2. 222. Dietr. 2. 1006. Loud. Arbor. 2. 557.

Betula triphylla. Thunberg, Diss. Betul. 12, **t. 2**; fide Swartz, Adnot. Bot. 25.

Turpinia pubescens & *glabra.* Raf. Med. Rep. 5. 354. Desv. Journ. Bot. 2. 170.

Var. **trilobata.** Gray, Am. Journ. Sci. 2. 33. 408. Watson, King's Rep. 5. 53; Pl. Wheel. 7. Porter, Hayd. Rep. 1871, 480; Fl. Col. 19. Brew. & Wats. Bot. Calif. 1. 110.

R. trilobata. Nutt.; Torr. & Gray, Fl. 1. 219; Pac. R. Rep. 2. 162. Eat. & Wr. 392. Walp. Rep. 1. 554. Torrey, Nicol. Rep. 147; Frem. Rep. 88; Marcy's Rep. 282; Sitgr. Rep. 157; Pac. R. Rep. 4. 73 & 7. 9; Mex. Bound. 44; Bot. Wilkes, 257. Gray, Pl. Lindh. 159; Pl. Fendl. 28; Pl. Wright. 1. 31 & 2. 27; Ives's Rep. 9; Hall's Pl. Tex. 5. Engelm. in Wisliz. Rep. 4; Pl. Upp. Miss. 187. Durand, Fl. Utah, 160.

R. copallina. Linn. Spec. 266. Medicus, Bot. Beob. 1782, 224. Marsh. Arbust. 128. Walter, 255. Gaertn. Fruct. 1. 205, **t. 44.** Ait. Hort. Kew. 1. 366. Plenck, Icon. **t. 233.** Lam. Ill. 2. 346, **t. 207, f. 3.** Jacq. Hort. Schönb. 3. 50, **t. 341.** Willd. Spec. 1. 1480; Enum. 324. Michx. Fl. 1. 182. Nouv. Duham. 2. 160. Persoon, 1. 324. Poir. Dict. 7. 506. Pursh, 205. Bigel. Fl. Bost. 119. Röm. & Schult. Syst. 6. 647. Elliott, 1. 362. James, Long's Exped. 1. 317. Torrey, Fl. U. S. 323; Fl. N. Y. 1. 129. DC. Prodr. 2. 68. Spreng. Syst. 1. 936. Don, Mill. 2. 72. Beck, Bot. 75. Hook. Jour. Bot. 1. 202. Spach, Hist. Veg. 2. 214. Darling. Fl. Cestr. 206. Torr. & Gray, Fl. 1. 217. Eat. & Wr. 392. Dietr. 2. 1006. Loud. Arbor. 2. 554. Emerson, Mass. Trees, 503. Gray, Pl. Fendl. 28; Manual, 111; Hall's Pl. Tex. 5. Scheele, Röm. Texas, 431. Engelm. Pl. Upp. Miss. 187. Curtis, Bot. N. Car. 92. Chapman, 69.

Var. **leucantha.** DC. Prodr. 2. 68. Engelm. & Gray, Pl. Lindh. 58.

R. leucantha. Jacq. Hort. Schönb. 3. 50, **t. 342.** Spach, Hist. Veg. 2. 215.

Var. **lanceolata.** Gray, Pl. Lindh. 158. Torrey, Mex. Bound. 44.

R. cotinoides. Nutt.; Chapman, 70. Wood, Cl.-Book, 285; Bot. & Fl. 73.

R. Cotinus (?). Torr. & Gray, Fl. 1. 216. Wood, Cl.-Book, 285.

Cotinus Americanus. Nutt. Sylva, 3. 1, **t. 81.**

R. diversiloba. Torr. & Gray, Fl. 1. 218. Eat. & Wr. 392. Walp. Rep. 1. 554 & 5. 414. Lindl. Bot. Reg. 31, **t. 38.** Benth. Pl. Hartw. 303. Torrey, Pac. R. Rep. 4. 73; Mex. Bound. 44. Newberry, Pac. R. Rep. 6. 69. Cooper, same, 12. 30. Turcz. Bull. Soc. Mosc. 31[1]. 470. Gray, Proc. Bost. Soc. Nat. Hist. 7. 146; Proc. Am. Acad. 8. 379. Boland. Proc. Calif. Acad. 3. 78; Cat. 7. Anderson, Cat. 119.

R. lobata. Hook. Fl. Bor.-Am. 1. 127, **t. 46,** not Poir. Hook. & Arn. Bot. Beechey, 137. Dietr. 2. 1006. Loud. Arbor. 2. 557.

R. glabra. Linn. Spec. 265. Medicus, Bot. Beob. 1782, 221. Marsh. Arbust. 128. Walter, 255. Ait. Hort. Kew, 1. 365. Plenck, Icon. **t. 237.** Lam. Ill. 2. 346, **t. 207, f. 1.** Moench, Meth. 72. Willd. Spec. 1. 1478; Enum. 323. Michx. Fl. 1. 182. Persoon, 1. 324. Nouv. Duham. 2. 164. Poir. Dict. 7. 503. Pursh, 204. Bigel. Fl. Bost. 118. Röm. & Schult. Syst. 6. 645. Elliott, 1. 361. James, Long's Exped. 1. 317. Torrey, Fl. U. S. 322; Fl. N. Y. 1. 129; Emory's Rep. 137 & 407. DC. Prodr. 2. 67. Spreng. Syst. 1. 936. Hook. Fl. Bor.-Am. 1. 126; Lond. Jour. Bot. 6. 76. Don, Mill. 2. 70. Beck, Bot. 75. Spach, Hist. Veg. 2. 213. Darling. Fl. Cestr. 206. Torr. & Gray, Fl. 1. 217; Pac. R. Rep. 2. 162. Eat. & Wr. 392. Dietr. 2. 1002. Loud. Arbor. 2. 551, **f. 225.** Emerson, Mass. Trees, 502. Gray, Genera, 2. 160, **t. 159**; Manual, 111. Richard. Arct. Exped. 424. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 187. Curtis, Bot. N. Car. 92. Lesqx. Fl. Ark. 353. Chapman, 69. Pl. Bourgeau, 255. Schnizl. Icon. **t. 245, f. 9–19.** Cooper, Am. Naturalist, 3. 405. Porter, Hayd. Rep. 1871, 480; Fl. Col. 19. Watson, King's Rep. 5. 52 & 419. Coulter, Hayd. Rep. 1872, 763.

? *R. Carolinense.* Marsh. Arbust. 129.

R. elegans. Ait. Hort. Kew. 1. 366. Willd. Spec. 1. 1478; Enum. 323. Nouv. Duham. 2. 164. Persoon, 1. 324. Poir. Dict. 7. 504. Elliott, 1. 361. Spach, Hist. Veg. 2. 213.

Var. **laciniata.** Carrière, Rev. Hort. 1863, 7 & **fig.**

Var. **occidentalis.** Torrey, Bot. Wilkes, 257. Gray, Pl. Fendl. 68.

R. integrifolia. Benth. & Hook. Genera, 1. 419. Watson, Pl. Wheel. 7.

Styphonia integrifolia. Nutt.; Torr. & Gray, Fl. 1. 220. Eat. & Wr. 444. Dietr. 2. 1226. Benth. Bot. Sulph. 11. Walp. Rep. 1. 555 & 5. 414. Nutt. Sylva, 3. 4, **t. 82.** Torrey, Pac. R. Rep. 4. 73 & 7. 9, **t. 2**; Mex. Bound. 44. Gray, Ives's Rep. 9.

S. serrata. Nutt.; Torr. & Gray, Fl. 1. 220. Eat. & Wr. 446. Dietr. 2. 1226. Walp. Rep. 5. 414. Nutt. Sylva, 3. 6.

R. laurina. Nutt.; Torr. & Gray, Fl. 1. 219. Eat. & Wr. 392. Benth. Bot. Sulph. 11. Torrey, Emory's Rep. 137.

Lithræa laurina. Walp. Rep. 1. 551; Ann. 2. 281. Torrey, Pac. R. Rep. 4. 73; Mex. Bound. 44, **t. 7.**

R. Metopium. Linn. Amœn. 5. 395. DC. Prodr. 2. 67. Nutt. Sylva, 2. 121, **t. 80.** Cooper, Smithson. Rep. 1860, 440. Chapman, 69. Griseb. Fl. Brit. W. Ind. 175 & syn. Wood, Bot. & Fl. 73.

R. microphylla. Engelm. in Gray, Pl. Wright. 1. 31. Gray, Pl. Wright. 2. 27; Pl. Thurb. 301. Torr. & Gray, Pac. R. Rep. 2. 162. Walp. Ann. 4. 447. Torrey, Mex. Bound. 44.

R. pumila. Michx. Fl. 1. 182. Nouv. Duham. 2. 163. Persoon, 1. 325. Poir. Dict. 7. 502. Pursh, 204. Elliott, 1. 361. DC. Prodr. 2. 67. Spreng. Syst. 1. 937. Don, Mill. 2. 70. Spach, Hist. Veg. 2. 214. Torr. & Gray, Fl. 1. 217. Eat. & Wr. 392. Dietr. 2. 1002. Loud. Arbor. 2. 552. Curtis, Bot. N. Car. 93. Chapman, 69. Wood, Cl.-Book. 284; Bot. & Fl. 73.

R. Toxicodendron. Linn. Spec. 266. Marsh. Arbust. 131. Walter, 255. Ait. Hort. Kew. 1. 367. Plenck, Icon. **t. 235.** Willd. Spec. 1. 1481. Nouv. Duham. 2. 167, **t. 48.** Poir. Dict. 7. 508. Elliott, 1. 363. James, Long's Exped. 2. 344. Torrey, Fl. U. S. 328; Ann. Lyc. N. Y. 2. 174; Fl. N. Y. 1. 130; Nicol. Rep. 147; Frem. Rep. 88; Emory's Rep. 137; Marcy's Rep. 282; Mex. Bound. 44; Bot. Wilkes, 257. DC. Prodr. 2. 69. Spreng. Syst. 1. 938. Hook. Fl. Bor.-Am. 1. 127; Woodville, Med. Bot. 5. 67 & **t.**; Jour. Bot. 1. 202; Lond. Jour. Bot. 6. 76. Don, Mill. 2. 72. Beck, Bot. 75. Spach, Hist. Veg. 2. 218. Lindl. Fl. Med. 285. Torr. & Gray, Fl. 1. 218. Eat. & Wr. 392. Dietr. 2. 1003. Nees, Pl. Wied, 5. Loud. Arbor. 2. 556, **f. 231.** Emerson, Mass. Trees, 506. Gray, Pl. Lindh. 159; Pl. Fendl. 28; Pac. R. Rep. 12. 41; Manual, 111; Hall's Pl. Tex. 5. Engelm. Wisliz. Rep. 4; Pl. Upp. Miss. 187. Richard. Arct. Exped. 424. Parry, Pl. Minn. 610. Curtis, Bot, N. Car. 93 & 118. Chapman, 69. Pl. Bourgeau, 255. Porter, Hayd. Rep. 1871, 480; Fl. Col. 19. Watson, King's Rep. 5. 33. Coulter, Hayd. Rep. 1872, 763; Bailey, Am. Naturalist, 7. 4, **f. 1.**

Toxicodendron pubescens, Mill. Moench, Meth. 73.

R. Toxicodendron, var. *quercifolium.* Michx. Fl. 1. 183. Pursh, 205. Röm. & Schult. Syst. 6. 652. Eat. & Wr. 392.

R. radicans, var. *Toxicodendron.* Persoon, 1. 325.

R. verrucosa. Scheele, Linn. 21. 592. Walp. Ann. 2. 282.

Var. **radicans.** Torrey, Fl. U. S. 324; Fl. N. Y. 1. 130. Torr. & Gray, Fl. 1. 218. Eat. & Wr. 392. Scheele, Röm. Texas, 432.

R. radicans. Linn. Spec. 266. Medicus, Bot. Beobacht. 1782, 225. Marsh. Arbust. 131. Walter, 255. Ait. Hort. Kew. 1. 367. Plenck, Icon. **t. 236.** Willd. Spec. 1. 1481; Enum. 324. Persoon, 1. 325. Poir. Dict. 7. 509. Bigel. Fl. Bost. 129; Med. Bot. 3. 19, **t. 42.** Nutt. Genera, 1. 203. Elliott, 1. 363. DC. Prodr. 2. 69. Hook. Fl. Bor.-Am. 1. 127. Don, Mill. 2. 72. Beck, Bot. 75. Spach, Hist.

Veg. 2. 217. Hook. & Arn. Bot. Beechey, 137 ? Loud. Arbor. 2. 555, **f. 230.** Torrey, Emory's Rep. 407.

Toxicodendron vulgare, Mill. Moench, Meth. 73.

Rhus Toxicodendron, var. *a. vulgare.* Michx. Fl. 1. 183. Pursh, 205. Sims, Bot. Mag. **t. 1806.** Röm. & Schult. Syst. 6. 651.

Var. **microcarpon.** Michx. Fl. 1. 183. Torr. & Gray, Fl. 1. 218.

Var. **pubens.** Engelm.; Gray, Pl. Lindh. 159.

R. typhina. Linn. Amœn. 4. 311. Medicus, Bot. Beobacht. 1782, 228. Marsh. Arbust. 129. Walter, 255. Ait. Hort. Kew. 1. 365. Ehrh. Beitr. 6. 89. Moench, Meth. 72. Willd. Spec. 1. 1478; Enum. 323. Michx. Fl. 1. 182. Nouv. Duham. 2. 164, **t. 47.** Persoon, 1. 324. Poir. Dict. 7. 503. Pursh, 204. Bigel. Fl. Bost. 118. Röm. & Schult. Syst. 6. 643. Elliott, 1. 360. Torrey, Fl. U. S. 322; Fl. N. Y. 1. 128. DC. Prodr. 2. 67. Spreng. Syst. 1. 936. Hook. Fl. Bor.-Am. 1. 126. Don, Mill. 2. 70. Beck, Bot. 76. Spach, Hist. Veg. 2. 212. Darling. Fl. Cestr. 205. Bennet, Pl. Jav. Rar. 80. Torr. & Gray, Fl. 1. 217 & 680. Eat. & Wr. 392. Dietr. 2. 1002. Loud. Arbor. 2. 550, **f. 224.** Emerson, Mass. Trees, 501. Richard. Arct. Exped. 424. Curtis, Bot. N. Car. 93. Chapman, 69. Lesqx. Fl. Ark. 353. Gray, Manual, 111.

Datisca hirta. Linn. Spec. 1037. Don, Mill. 1. 290.

R. hypselodendron. Moench, Meth. 73.

R. Canadense, Mill. Nouv. Duham. 2. 163.

R. viridiflora. Nouv. Duham. 2. 163. Poir. Dict. 7. 504. DC. Prodr. 2 67. Don, Mill. 2. 70. Dietr. 2. 1002. Loud. Arbor. 2. 551.

R. venenata. DC. Prodr. 2. 68. Hook. Fl. Bor.-Am. 1. 126. Don, Mill. 2. 71. Beck, Bot. 76. Spach, Hist. Veg. 2. 215. Darling. Fl. Cestr. 207. Lindl. Fl. Med. 284. Torr. & Gray, Fl. 1. 218 & 681. Eat. & Wr. 392. Dietr. 2. 1003. Torrey, Fl. N. Y. 1. 130. Loud. Arbor. 2. 552, **f. 226.** Emerson, Mass. Trees, 504. Richard. Arct. Exped. 424. Curtis, Bot. N. Car. 93. Chapman, 69. Gray, Manual, 111. Bailey, Am. Naturalist, 7. 5, **f. 3.**

R. Vernix. Linn. Spec. 265, in part. Medicus, Bot. Beobacht. 1782, 223. Marsh. Arbust. 130. Ait. Hort. Kew. 1. 366. Plenck, Icon. **t. 234.** Lam. Ill. 2. 346, **t. 207, f. 2.** Willd. Spec. 1. 1479; Enum. 323. Michx. Fl. 1. 183. Nouv. Duham. 2. 165. Persoon, 1. 324. Poir. Dict. 7. 505. Pursh, 205. Bigel. Fl. Bost. 110; Med. Bot. 1. 96, **t. 10.** Röm. & Schult. Syst. 6. 646. Elliott, 1. 362. Torrey, Fl. U. S. 323. Spreng. Syst. 1. 936. Hook. Jour. Bot. 1. 202.

R. virens. Lindh.; Gray, Pl. Lindh. 159; Pl. Wright. 1. 31 & 2. 27; Hall's Pl. Tex. 5. Walp. Ann. 2. 282. Torrey, Mex. Bound. 44. Young, Fl. Texas, 198.

? *R. Schiedeana.* Schlecht. in Linn. 16. 480.

R. Canadensis; aromatica, typhina.
Carolinense; glabra.
Cotinus; cotinoides.
elegans; glabra.
hypselodendron; typhina.
leucantha; copallina.
lobata; diversiloba.
R. radicans; Toxicodendron.
Schiedeana; virens.
suaveolens & *trilobata*; aromatica.
Vernix; venenata.
verrucosa; Toxicodendron.
viridiflora; typhina.

SCHINUS (?) **discolor.** Benth. Bot. Sulph. 11, **t. 9.** Walp. Rep. 5. 413. (Lower California.)

S. Molle. Linn. Spec. 388. DC. Prodr. 2. 74. Hook. Bot. Mag. **t. 3339**, with syn. Torrey, Mex. Bound. 44.

LEGUMINOSÆ.

ACACIA amentacea. DC. Prodr. 2. 455; Fl. Mex. Icon. ined. **t. 208.** Gray, Pl. Lindh. 185. Benth. Rev. Mim. in Trans. Linn. Soc. 30. 514.

A. rigidula. Benth. in Lond. Journ. Bot. 1. 504. Walp. Rep. 1. 913. Dietr. 4. 497. Gray, Pl. Wright. 1. 65. Torrey, Mex. Bound. 61.

Hoopesia arborea. Buckley, in part. See under *A. flexicaulis.*

A. Berlandieri. Benth. in Lond. Journ. Bot. 1. 522; Rev. Mim. 529. Walp. Rep. 1. 919. Dietr. 4. 500.

A. tephroloba. Gray, Pl. Wright. 1. 65 & 2. 54. Walp. Ann. 4. 625. Torrey, Mex. Bound. 61.

A. constricta. Benth. in Gray, Pl. Wright. 1. 66; Rev. Mim. 513. Gray, Pl. Wright. 1. 66 & 2. 54. Walp. Ann. 4. 626. Torrey, Pac. R. Rep. 7. 10; Mex. Bound. 62.

A. crassifolia. Gray, Pl. Thurb. 317. Walp. Ann. 4. 626. Torrey, Mex. Bound. 62. Benth. in Hook. f. Icon. **t. 1166**; Rev. Mim. 525. (Chihuahua.)

A. Emoryana. Benth. Rev. Mim. 522.

A. Coulteri. Benth. in Gray, Pl. Wright. 1. 66, in part. Walp. Ann. 4. 626. Gray, Pl. Wright. 2. 53. Torrey, Mex. Bound. 62.

A. Farnesiana. Willd. Spec. 4. 1083. See syn. in Benth. Lond. Journ. Bot. 1. 494, & Rev. Mim. 502. — DC. Prodr. 2. 461. Hook. Comp. Bot. Mag. 1. 24. Eat. & Wr. 111. Engelm. & Gray, Pl. Lindh. 8 & 31. Seem. Bot. Herald, 282. Gray, Pl. Wright. 1. 67; Proc. Am. Acad. 5. 158; Hall's Pl. Texas, 8. Griseb. Fl. Brit. W. Ind. 222. Torrey, Mex. Bound. 62. Wood, Bot. & Fl. 99. Brew. & Wats. Bot. Calif. 1. 164.

Vachellia Farnesiana, Wight & Arn. Torr. & Gray, Fl. 1. 405 & 695.

A. Cavenia. Benth. in Gray, Pl. Wright. 1. 67; not of Hook. & Arn. in Bot. Beechey, 21.

A. filicina. Willd. Spec. 4. 1072. See syn. in Benth. Rev. Mim. 532. — DC. Prodr. 2. 468. Benth. Pl. Hartw. 13; Lond. Journ. Bot. 1. 524. Walp. Rep. 1. 920.

Mimosa filicioides. Cav. Icon. 1. 55, **t. 78.**

A. umbellifera. Kunth, Mim. 100, **t. 31.**

A. ——, n. sp. Nutt.; Torrey, Ann. Lyc. N. Y. 2. 191.

A. glabrata, elegans, hirsuta & *stipellata.* Schlecht. in Linnæa, 12. 569–574. Walp. Rep. 1. 924.

A. caspidata. Schlecht. in Linnæa, 12. 573. Walp. Rep. 1. 920. Benth. in Lond. Journ. Bot. 1. 525. Gray, Pl. Wright. 1. 66 & 2. 54. Torrey, Pac. R. Rep. 7. 10; Mex. Bound. 62. Watson, Pl. Wheeler, 8.

A. lucta. Nutt.; Torr. & Gray, Fl. 1. 404; Pac. R. Rep. 2. 164. Walp. Rep. 1. 920. Benth. in Lond. Journ. Bot. 1. 525. Engelm & Gray, Pl. Lindh. 8 & 31. Dietr. 4. 501. Gray, Pl. Wright. 1. 66; Hall's Pl. Texas, 8.

A. Texensis. Torr. & Gray, Fl. 1. 404; Pac. R. Rep. 2. 164. Walp. Rep. 1. 920. Benth. in Lond. Journ. Bot. 526. Dietr. 4. 501.

A. flexicaulis. Benth. in Lond. Journ. Bot. 1. 505; Rev. Mim. 514. Walp. Rep. 1. 913. Dietr. 4. 497. Gray, Pl. Wright. 1. 65; Proc. Am. Acad. 5. 158. Torrey, Mex. Bound. 62.

Hoopesia arborea. Buckley, Proc. Acad. Philad. 1861, 453, & 1870, 137, in part; fide Gray, same, 1862, 163. Walp. Ann. 7. 812. Young, Fl. Texas, 245.

A. Greggii. Gray, Pl. Wright. 1. 65; Ives's Rep. 11. Torrey, Sitgr. Rep. 158; Pac. R. Rep. 7. 10; Mex. Bound. 61. Walp. Ann. 4. 625. Benth. Rev. Mim. 521. Brew. & Wats. Bot. Calif. 1. 164.

A. Durandiana. Buckl. Proc. Acad. Phil. 1861, 453; fide Gray, same, 1862, 163.

A. malacophylla. Benth. in Gray, Pl. Wright. 1. 64; Rev. Mim. 526. Walp. Ann. 4. 625.

A. Rœmeriana. Schlecht. in Linnæa, 21. 456. Gray, Pl. Lindh. 184; Pl. Wright. 1. 65 & 2. 54. Walp. Ann. 2. 456. Torr. Mex. Bound. 61. Benth. Rev. Mim. 526.

A. Schottii. Torrey, Mex. Bound. 62. Walp. Ann. 7. 837. Benth. l. c. 513.

A. tortuosa. Willd. Spec. 4. 1083. DC. Prodr. 2. 461. Benth. in Lond. Journ. Bot. 1. 392; Rev. Mim. 501, with syn. Griseb. Fl. Brit. W. Ind. 222. Gray, in Torrey, Mex. Bound. 62.

A. albida. Lindl. Bot. Reg. **t. 1317.**

A. Wrightii. Benth. in Gray, Pl. Wright. 1. 64; Rev. Mim. 521. Gray, Pl. Wright. 2. 53. Walp. Ann. 4. 626. Torrey, Mex. Bound. 61. Brew. & Wats. Bot. Calif. 1. 164.

A. albida; tortuosa.
brachyloba; Desmanthus brachylobus.
Cavenia; Farnesiana.
Coolegi; Desmanthus Jamesii.
Coulteri; Emoryana.
cuspidata; filicina.
Durandiana; Greggii.
elegans & *glabrata;* filicina.
glandulosa; Desmanthus brachylobus.
hirsuta & *hirta;* filicina.
humilis; Calliandra humilis.

A. Julibrissin; Albizzia Julibrissin.
latisiliqua; Lysiloma latisiliqua.
lutea; Neptunia lutea.
Nueciana; Pithecolobium brevifolium.
rigidula; amentacea.
Sabeana; Leucæna retusa.
stipellata; filicina.
tephroloba; Berlandieri.
Texensis & *umbellifera;* filicina.
—— ?; filicina.

ÆSCHYNOMENE hispida. Willd. Spec. 3. 1163. Persoon, 2. 316. Ait. f. Hort. Kew, 4. 337. Pursh, 485. Poir. Suppl. 4. 75. Nutt. Genera, 2. 111. Barton, Fl. N. Am. 1. 102, **t. 29.** Elliott, 2. 220. DC. Prodr. 2. 321. Spreng. Syst. 3. 322. Torrey, Compend. 270. Don, Mill. 2. 284. Beck, Bot. 83. Torr. & Gray, Fl. 1. 356. Eat. & Wr. 115. Dietr. 4. 1136. Benth. in Mart. Fl. Bras. 15^{1}. 59. Lesqx. Fl. Ark. 356. Chapman, 99. Gray, Manual, 134.

Hedysarum Virginicum. Linn. Spec. 750. Hill, Veg. Syst. 21, **t. 42, f. 3** & **t. 43, f. 4.** Willd. Spec. 3. 1212. Poir. Dict. 6. 449. Persoon, 2. 324. Spreng. Syst. 3. 321.

? *Æ. glaberrima.* Poir. Suppl. 4. 76. DC. Prodr. 2. 320. Spreng. Syst. 3. 322. Don, Mill. 2. 284. Eat. & Wr. 115. Dietr. 4. 1135.

Æ. ciliata. Vogel, Linnæa, 12. 84.

Æ. viscidula. Michx. Fl. 2. 74. Persoon, 2. 316. Pursh, 485. Nutt. Genera, 2. 111. Elliott, 2. 220. DC. Prodr. 2. 322. Spreng. Syst. 3. 322. Don, Mill. 2. 285. Torr. & Gray, Fl. 1. 356. Eat. & Wr. 115. Dietr. 4. 1136. Benth. in Mart. Fl. Bras. 15^{1}. 68. Chapman, 99. Wood, Bot. & Fl. 87.

Æ. prostrata. Poir. Suppl. 4. 76.

ALBIZZIA Julibrissin, Durazz. Müller, Trim. Journ. Bot. 1872, 7. Benth. Rev. Mim. in Trans. Linn. Soc. 30. 568. Wood, Bot. & Fl. 82. Gray, Hall's Pl. Texas, 9.

Acacia Julibrissin, Willd. Torr. & Gray, Fl. 1. 404.

AMORPHA Californica. Nutt.; Torr. & Gray, Fl. 1. 306. Hook. & Arn. Bot. Beechey, 333. Eat. & Wr. 123. Walp. Rep. 1. 655. Dietr. 4. 1020. Schlecht. in Linnæa, 24. 688. Brew. & Wats. Bot. Calif. 1. 140.

A. fruticosa. Torrey, Mex. Bound. 53.

A. canescens. Nutt. in Fras. Cat. 1813; Genera, 2. 92. Pursh, 467. Bradbury, Cat. 337. James, Long's Exped. 2. 336. DC. Prodr. 2. 256. Spreng. Syst. 3. 326. Torrey, Ann. Lyc. N. Y. 2. 178; Nicol. Rep. 148; Frem. Rep. 88; Emory's Rep. 408; Marcy's Rep. 284; Pac. R. Rep. 4. 78. Hook. Fl. Bor.-Am. 1. 139. Don, Mill. 2. 234. Spach, Hist. Veg. 1. 256. Torr. & Gray, Fl. 1. 306; Pac. R. Rep. 2. 126. Eat. & Wr. 122. Loud. Arbor. 2. 608. Dietr. 4. 1020. Gray, Pl. Fendl. 31; Pac. R. Rep. 12. 42; Manual, 130. Parry, Pl. Minn. 611. Richard. Arct. Exped. 424. Engelm. Pl. Upp. Miss. 188. Chapman, 94. Pl. Bourgeau, 255. Porter, Fl. Col. 23.

Var. **leptostachya.** Engelm.; Gray, Pl. Fendl. 31.

Var. **glabrata.** Gray, Pl. Wright. 1. 49.

A. fruticosa. Linn. Spec. 713. Medicus, Bot. Beobacht. 1782, 168. Lam. Dict. 1. 137; Ill. 3. 179, **t. 621.** Marshall, Arbust. 6. Walter, 179. Gaertn. Fruct. **t. 144.** Ait. Hort. Kew. 3. 17. Schkuhr, Handb. 2. 332, **t. 197.** Moench, Meth. 513. Willd. Arb. 16; Spec. 3. 970; Enum. 747. Michx. Fl. 2. 64. Nouv. Duham. 3. 150, **t. 36.** Persoon, 2. 294. Poir. Suppl. 1. 330. Pursh, 466. Bradbury, Cat. 337. Nutt. Genera, 2. 91. Ker, Bot. Reg. 5, **t. 427.** James, Long's Exped. 1. 314 & 2. 101. Elliott, 2. 188. DC. Prodr. 2. 256. Spreng. Syst. 3. 326. Torrey, Ann. Lyc. N. Y. 2. 178; Nicol. Rep. 148; Frem. Rep. 88; Sitgr. Rep. 158; Emory's Rep. 138; Pac. R. Rep. 7. 9. Hook. Fl. Bor.-Am. 1. 139; Comp. Bot. Mag. 1. 22. Don, Mill. 2. 234. Beck, Bot. 82. Spach, Hist. Veg. 1. 254. Torr. & Gray, Fl. 1. 350 & 690. Eat. & Wr. 122. Loud. Arbor. 2. 607, excl. fig. Dietr. 4. 1019. Richard. Arct. Exped. 424. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 188. Gray, Pac. R. Rep. 12. 42; Manual, 130. Curtis, Bot. N. Car. 104. Chapman, 93. Pl. Bourgeau, 255. Baillon, Hist. Pl. 2. 214, **f. 166, 167.** Porter, Fl. Col. 23. The distribution of the synonymy under this species is to some extent uncertain.

A. perforata & *nonperforata.* Schkuhr, Handb. 2. 333.

A. elata & *fruticosa.* Hayne, Dendr. Fl. 134 (Schlecht. in Linnæa, 24. 687 & 688).

? *A. humilis.* Tausch, Diar. Ratisb. 22 2. 750 (Schlecht. l. c. 689).

A. pubescens. Schlecht. l. c. 691, not Willd.

Var. **emarginata.** Pursh, 466. Torrey, Compend. 262. Loud. Arbor. 2. 607.

Var. (?) **angustifolia.** Pursh, 466. Loud. Arbor. 2. 607.

A. nana. Nutt. Fras. Cat. 1813, not Genera. Sims, Bot. Mag. **t. 2112.** Spreng. Syst. 3. 326.

? *A. crocco-lanata.* Watson, Dendr. Brit. **t. 139.** Don, Mill. 2. 234. Spach, Hist. Veg. 1. 254. Loud. Arbor. 2. 608, **f. 304.** Dietr. 4. 1020.

A. fragrans. Sweet, Brit. Fl. Gard. **t. 241.** Don, Mill. 2. 234. Spach, Hist. Veg. 1. 255. Loud. Arbor. 2. 608, **f. 303.** Schlecht. in Linnæa, 24. 692. Walp. Ann. 4. 485.

A. Lewisii & ? *cærulea.* Lodd. Cat. 1830.

A. fruticosa, vars. *Lewisii* & *cærulea.* Loud. Arbor. 2. 607

A. fruticosa, var. Torr. & Gray, Fl. 1. 690; Pac. R. Rep. 2. 162. Gray, Pl. Fendl. 31; Pl. Lindh. 174; Pl. Wright. 1. 49; Hall, Pl. Texas, 7.

A. glabra. Engelm. & Gray, Pl. Lindh. 7.

A. pumila & *herbacea.* Schlecht. in Ind. Sem. Hal. 1848, 8 (Linnæa, 24. 185; Ann. Sci. Nat. 3. 11. 248).

Var. (?) **Caroliniana.**

A. glabra. Desv. Cat. h. Par. 192. Persoon, 2. 295. Poir. Suppl. 1. 330. DC. Prodr. 2. 256. Don, Mill. 2. 234. Spach, Hist. Veg. 1. 255. Torr. & Gray, Fl. 1. 690. Eat. & Wr. 122. Loud. Arbor. 2. 607.

A. Caroliniana. Croom, Am. Journ. Sci. 1. 25. 74; Cat. Pl. Newbern, 43. Torr. & Gray, Fl. 1. 305. Eat. & Wr. 122. Walp. Rep. 1. 655. Dietr. 4. 1019.

A. cynostachya. Curtis, Journ. Bost. Soc. Nat. Hist. 1. 140.

A. Tennessensis. Shuttlw.; Ind. Sem. Lips. 1848, 1 (Linnæa, 24. 191). Walp. Ann. 2. 360.

A. herbacea. Walter, 179. Nutt. Genera, 2. 91. DC. Prodr. 2. 256. Spreng. Syst. 3. 326. Don, Mill. 2. 234. Torr. & Gray, Fl. 1. 306. Dietr. 4. 1019. Gray, Pl. Wright. 1. 49. Curtis, Bot. N. Car. 104. Chapman, 94. Wood, Bot. & Fl. 93.

A. pubescens. Willd. Arb. 17; Spec. 3. 970; Enum. 747. Nouv. Duham. 3. 150. Persoon, 2. 294. Ait. f. Hort. Kew. 4. 265. Pursh, 467. Lodd. Bot. Cab. **t. 689.** Hayne, Dendr. Fl. 134 (Schlecht. in Linnæa, 24. 687). Elliott, 2. 189. Spach, Hist. Veg. 1. 255. Eat. & Wr. 122.

A. pumila. Michx. Fl. 2. 64. Poir. Suppl. 1. 330.

A. lævigata. Nutt.; Torr. & Gray, Fl. 1. 306. Eat. & Wr. 123. Walp. Rep. 1. 655. Dietr. 4. 1020. Gray, Hall's Pl. Texas, 7.

A. fruticosa, var. (†). Gray, Pl. Lindh. 174.

A. Texana. Buckley, Proc. Acad. Phil. 1861, 452; fide Gray, same, 1862, 162.

A. microphylla. Pursh, 466. Poir. Suppl. 5. 548. Bradbury, Cat. 337.

A. nana. Nutt. Genera, 2. 91, not Fras. Cat. DC. Prodr. 2. 256. Hook. Fl. Bor.-Am. 1. 139. Don, Mill. 2. 234. Torr. & Gray, Fl. 1. 306 & 690. Eat. & Wr. 122. Nees, Pl. Wied, 7. Torrey, Nicol. Rep. 148. Loud. Arbor. 2. 607, **f. 302.** Dietr. 4. 1019. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 188. Cooper, Pac. R. Rep. 12. 42. Pl. Bourgeau, 255.

A. paniculata. Torr. & Gray, Fl. 1. 306. Eat. & Wr. 123. Walp. Rep. 1. 655. Engelm. & Gray, Pl. Lindh. 7. Dietr. 4. 1020. Gray, Pl. Wright. 1. 49; Hall's Pl. Texas, 7. Young, Fl. Texas, 223.

A. Rameriana. Scheele, Linnæa, 21. 461. Walp. Ann. 2. 360.

A. lævigata, var. *pubescens.* Gray, Pl. Wright. 1. 49. Torrey, Mex. Bound. 53.

A. cærulea, Caroliniana, croceo-lanata & *cynostachya;* fruticosa.
elata & *fragrans;* fruticosa.
fruticosa; Californica, lævigata.
glabra, herbacea & *humilis;* fruticosa.
lævigata; paniculata.
Lewisii; fruticosa.

A. nana; fruticosa, microphylla.
nonperforata & *perforata;* fruticosa.
pubescens & *pumila;* fruticosa, herbacea.
Rameriana; paniculata.
Tennessensis; fruticosa.
Texensis; lævigata.

AMPHICARPÆA monoica. Elliott, Journ. Acad. Philad. 1. 373; Sketch, 2. 232. Nutt. Genera, 2. 113. DC. Mem. Legum. 360; Prodr. 2. 383. Torrey, Compend. 270; Fl. N. Y. 1. 164; Frem. Rep. 88; Pac. R. Rep. 4. 77. Hook. Fl. Bor.-Am. 1. 161; Comp. Bot. Mag. 1. 23. Don, Mill. 2. 343. Beck, Bot. 91. Darling. Fl. Cestr. 427. Torr. & Gray, Fl. 1. 292. Dietr. 4. 1165. Gray, Pl. Fendl. 31; Pac. R. Rep. 12. 41; Manual, 142. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 188. Chapman, 107. Walp. Ann. 7. 780.

Glycine comosa. Linn. Spec. 754. Hill, Veg. Syst. 21, **t. 6, f. 1.** Lam. Dict. 2. 736. Willd. Spec. 3. 1058. Persoon, 2. 300. Pursh, 486.

Glycine bracteata. Linn. Spec. 754. Pursh, 485.

Glycine monoica. Linn. Spec. 2 ed. 1023. Hill, Veg. Syst. 21, **t. 5, f. 2.** Lam. Dict. 2. 736. Ait. Hort. Kew. 3. 34. Schkuhr in Usteri's Annal. 12. 20, **t. 2.** Wendl. in Roem. Arch. 1. 3, **t. 103, f. 2.** Willd. Spec. 3. 1055. Michx. Fl. 2. 64. Persoon, 2. 299. Pursh, 485. Bigel. Fl. Bost. 173.

Anonymos Caroliniensis. Walter, 188.

Falcata Caroliniana. Gmelin, Syst. 2. 1131.

Glycine sarmentosa. Roth, Catalect. 2. 87. Willd. Spec. 3. 1055. Persoon, 2. 299. Poir. Suppl. 2. 797. Ait. f. Hort. Kew. 4. 296. Pursh, 485.

Glycine heterocarpa. Hegetschw. Comm. 5, **t. 5.**

? *Glycine filosa.* Hornem. Cat. Hort. Hafn. 2. 682.

Glycine elliptica. Smith, Abbot's Hist. Nat. Georg. **t. 21** (Roem. Archiv. 2. 402).

Amphicarpæa sarmentosa. Nutt. Genera, 2. 114. Elliott, 2. 233. DC. Prodr. 2. 383. Don, Mill. 2. 343.

Cryptolobus Americanus & sarmentosus. Spreng. Syst. 3. 218.

Amphicarpa comosa. Riddell, Syn. Fl. W. States, 26.

Phaseolus monoicus. Eat. & Wr. 353.

A. Pitcheri. Torr. & Gray, Fl. 1. 292. Walp. Rep. 1. 750. Dietr. 4. 1165. Wood, Bot. & Fl. 97.

Phaseolus Pitcheri. Eat. & Wr. 353.

APIOS tuberosa. Moench, Meth. 165. Pursh, 473. Nutt. Genera, 2. 113. James, Long's Exped. 1. 135. Elliott, 2. 232. DC. Prodr. 2. 390. Spreng. Syst. 3. 310. Torrey, Compend. 270; Fl. N. Y. 1. 162; Frem. Rep. 88. Hook. Fl. Bor.-Am. 1. 161; Comp. Bot. Mag. 1. 24. Don, Mill. 2. 349. Beck, Bot. 91. Spach, Hist. Veg. 1. 322. Torr. & Gray, Fl. 1. 282. Gray, Pl. Lindh. 170; Pl. Fendl. 30; Manual, 140. Dietr. 4. 1203. Lindl. in Journ. Hort. Soc. Lond. 2. 144, **fig.** (Fl. Serres, 5. 425, **fig.**). Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 188. Lesqx. Fl. Ark. 357. Chapman, 105. Lemaire, Ill. Hort. 13, Misc. 42.

Glycine Apios. Linn. Spec. 753. Hill, Veg. Syst. 21, **t. 7, f. 1.** Lam. Dict. 2. 738. Walter, 186. Ait. Hort. Kew. 3. 35. Willd. Spec. 3. 1067; Enum. 757. Michx. Fl. 2. 63. Persoon, 2. 301. Schkuhr, Handb. **t. 198.** Sims, Bot. Mag. **t. 1198.** Bigel. Fl. Bost. 173. Elliott, Journ. Acad. Philad. 1. 325. Darling. Fl. Cestr. 428.

Phaseolus tuberosus. Eat. & Wr. 354.

ASTRAGALUS aboriginum. Richard. in Frankl. Journ. Appx. 18. Spreng. Syst. 4. 288. Don, Mill. 2. 258. Dietr. 4. 1081. Gray, Proc. Am. Acad. 6. 203. Watson, King's Rep. 5. 70 & 438. Porter, Fl. Col. 25. Rothr. Pl. Wheeler, 36.

Phaca aboriginum. Hook. Fl. Bor.-Am. 1. 143, **t. 56.** Don, Mill. 2. 470. Torr. & Gray, Fl. 1. 346 & 694. Eat. & Wr. 349. Walp. Rep. 1. 686. Dietr. 4. 1063. Seem. Bot. Herald, 51. Hook. f. Journ. Linn. Soc. 1. 121 & 124; Arct. Pl. 289. Pl. Bourgeau, 255.

A. adsurgens. Pall. Astrag. 40, **t. 31.** See syn. in Ledeb. Fl. 1. 603; Bunge, Astrag. 2. 184. — DC. Prodr. 2. 287. Reichenb. Hort. Bot. **t. 217.** Hook. Fl. Bor.-Am. 1. 149. Don, Mill. 2. 258. Torr. & Gray, Fl. 1. 330; Pac. R. Rep. 2. 126. Eat. & Wr. 138. Torrey, Bot. Wilkes, 276. Engelm. Pl. Upp. Miss. 189. Gray, Pac. R. Rep. 12. 42; Proc. Am. Acad. 6. 197. Watson, King's Rep. 5. 68 & 439. Porter, Hayd. Rep. 1870, 475; Fl. Col. 23. Rothr. Pl. Wheeler, 36.

A. Laxmanni. Nutt. Genera, 2. 99; not Jacq., fide Bunge, l. c. 2. 84. James, Cat. 186; Long's Exped. 2. 333. Torrey, Ann. Lyc. N. Y. 2. 178. Don, Mill. 2. 258, in part. Eat. & Wr. 138.

A. striatus. Nutt.; Torr. & Gray, Fl. 1. 330. Walp. Rep. 1. 699. Dietr. 4. 1080. Engelm. Pl. Upp. Miss. 189. Gray, Proc. Acad. Philad. 1863, 60.

A. hypoglottis, var. *robustus.* Hook. in Lond. Journ. Bot. 6. 210.

A. alpinus. Linn. Spec. 760. See syn. in Ledeb. Fl. Ross. 1. 601; Bunge, Astrag. 2. 26; DC. Astrag. 64, & Trautv. Pl. Middend. 1. 49, under *Phaca.* — Pursh, 472. R. Br. in Parry's 1st Voy. 278. Meyer, Pl. Lab. 82. Eat. & Wr. 138. Hook. f. in Journ. Linn. Soc. 1. 121 & 124, & 5. 83; Arct. Pl. 289. Dickie, Journ. Linn. Soc. 3. 110. Gray, Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 205. Rothr. Fl. Alask. 445; Pl. Wheeler, 36. Matthew, Pl. Acad. 15. Watson, King's Rep. 5. 438. Porter, Hayd. Rep. 1871, 481; Fl. Col. 26. Coulter, Hayd. Rep. 1872, 764. Torrey, Bot. Wilkes, 276.

A. secundus. Michx. Fl. 1. 66, not DC. Pursh, 473. Spreng. Syst. 3. 303. Eat. & Wr. 147.

Phaca astragalina. DC. Astrag. 64; Prodr. 2. 274. Lodd. Bot. Cab. **t. 429.** Richard. in Frankl. Journ. 17. Spreng. Syst. 3. 292. Hook. Fl. Bor.-Am. 1. 144. Schlecht. Fl. Lab. in Linnæa, 10. 99. Torr. & Gray, Fl. 1. 345. Hook. & Arn. Bot. Beechey, 122. Eat. & Wr. 351. Torrey, Frem. Rep. 89. Seem. Bot. Herald, 28 & 51. Pl. Bourgeau, 255.

Colutea astragalina. Poir. Suppl. 1. 561.

A. Labradoricus. DC. Prodr. 2. 287. Hook. Fl. Bor.-Am. 1. 150. Don, Mill. 2. 238. Meyer, Pl. Lab. 83. Torr. & Gray, Fl. 1. 330. Dietr. 4. 1080.

A. pauciflorus. Hook. in Lond. Journ. Bot. 6. 210.

A. Robbinsii. Matthew, Pl. Acad. 15, not Gray.

A. ampullarius. Watson, Am. Naturalist, 7. 300. Gray, Bot. Calif. 1. 149.

A. Andersonii. Gray, Proc. Am. Acad. 6. 524; Bot. Calif. 1. 151. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 67 & 437.

A. aridus. Gray, Proc. Am. Acad. 6. 223; Bot. Calif. 1. 147. Watson, King's Rep. 5. 443.

A. Antiselli. Gray, Bot. Calif. 1. 152.

Homalobus multiflorus. Torrey, Pac. R. Rep. 7. 10.

A. Arizonicus. Gray, Proc. Am. Acad. 7. 398. Watson, King's Rep. 5. 437.

A. Sonoræ. Torrey, Mex. Bound. 56, not Gray. Gray, Proc. Am. Acad. 6. 234.

A. arrectus. Gray, Proc. Am. Acad. 8. 289; Bot. Calif. 1. 153. Watson, King's Rep. 5. 69 & 437. Parry, Am. Naturalist, 9. 270.

A. leucophyllus. Hook. in Lond. Journ. Bot. 6. 211; not Torr. & Gray.

A. atratus. Watson, King's Rep. 5. 69 & 437, **t. 11.** Parry, Am. Naturalist, 9. 270. Gray, Bot. Calif. 1. 155.

A. Austinæ. Gray, Bot. Calif. 1. 156.

A. Beckwithii. Torr. & Gray, Pac. R. Rep. 2. 120, **t. 3** (Regensb. Flora, 1858, 622). Durand, Fl. Utah, 162. Gray, Proc. Am. Acad. 6. 221. Walp. Ann. 7. 757. Watson, King's Rep. 5. 71 & 440.

A. Bigelovii. Gray, Pl. Wright. 2. 42; Proc. Am. Acad. 6. 196. Walp. Ann. 4. 524. Torrey, Mex. Bound. 55. Watson, King's Rep. 5. 436. Brandegee, Fl. S. W. Col. 234.

A. bisulcatus. Gray, Pac. R. Rep. 12. 42, **t. 1, B**; Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 221. Watson, King's Rep. 5. 442. Porter, Hayd. Rep. 1871, 481; Fl. Col. 28.

Phaca bisulcata. Hook. Fl. Bor.-Am. 1. 145; Lond. Journ. Bot. 6. 214. Don, Mill. 2. 471. Torr. & Gray, Fl. 1. 349. Eat. & Wr. 349. Walp. Rep. 1. 688. Dietr. 4. 1064. Engelm. Pl. Upp. Miss. 189. Pl. Bourgeau, 255.

A. Bolanderi. Gray, Proc. Am. Acad. 7. 337; Bot. Calif. 1. 153. Watson, King's Rep. 5. 437.

A. Bourgovii. Gray, Proc. Am. Acad. 6. 227. Watson, King's Rep. 5. 444.

A. Brandegei. Porter, Fl. Col. 24.

A. Brazoensis. Buckley, Proc. Acad. Philad. 1861, 452. Gray, same, 1862, 162; Proc. Am. Acad. 6. 198. Walp. Ann. 7. 738. Watson, King's Rep. 5. 436.

A. Breweri. Gray, Proc. Calif. Acad. 3. 193; Proc. Am. Acad. 6. 207; Bot. Calif. 1. 146. Boland. Cat. 10. Watson, King's Rep. 5. 439.

A. cæspitosus. Gray, Proc. Am. Acad. 6. 230. Watson, King's Rep. 5. 445. Porter, Hayd. Rep. 1871, 481.

Homalobus cæspitosus & canescens. Nutt.; Torr. & Gray, Fl. 1. 352. Eat. & Wr. 272. Walp. Rep. 1. 711 & 712. Dietr. 4. 1099 & 1100.

H. brachycarpus. Nutt.; same citations. Hook. in Lond. Journ. Bot. 6. 215.

A. calycosus. Torr.; Watson, King's Rep. 5. 66 & 435. Gray, Bot. Calif. 1. 156.

A. campestris. Gray, Proc. Am. Acad. 6. 229. Watson, King's Rep. 5. 76 & 445. Porter, Hayd. Rep. 1871, 481; Fl. Col. 29. Coulter, Hayd. Rep. 1872, 764. Rothr. Pl. Wheeler, 36.

Homalobus campestris. Nutt.; Torr. & Gray, Fl. 1. 351. Eat. & Wr. 272. Walp. Rep. 1. 711. Dietr. 4. 1099. Hook. in Lond. Journ. Bot. 6. 214.

H. tenuifolius. Nutt.; same citations, excl. Hook.

H. decumbens. Gray, Proc. Acad. Philad. 1863, 60; not Nutt.

A. Canadensis. Linn. Spec. 757. Hill, Veg. Syst. 22, **t. 15, f. 1.** Lam. Dict. 1. 311. Scopoli, Delic. Fl. Insub. 2. 125 (Roem. u. Ust. Mag. Bot. 3. 30). Walter, 183. Ait. Hort. Kew. 3. 74. Willd. Spec. 3. 1274. DC. Astrag. 171; Prodr. 2. 293. Persoon, 2. 339. Pursh, 472. Lodd. Bot. Cab. **t. 372.** Elliott, 2. 227. Spreng. Syst. 3. 303. Torrey, Compend. 264; Fl. N. Y. 1. 172, **t. 25.** Hook. Fl. Bor.-Am. 1. 152. Don, Mill. 2. 263. Beck, Bot. 82. Torr. & Gray, Fl. 1. 335; Pac. R. Rep. 2. 163. Eat. & Wr. 147. Dietr. 4. 1086. Gray, Pl. Fendl. 53; Pac. R. Rep. 12. 42; Proc. Am. Acad. 6. 196; Manual, 132. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 189. Chapman, 97. Pl. Bourgeau, 255. Watson, King's Rep. 5. 67 & 436, excl. var.; Pl. Wheeler, 7. Coulter, Hayd. Rep. 1872, 764. Porter, Fl. Col. 23.

A. Carolinianus. Linn. Spec. 757. Hill, Veg. Syst. 22, **t. 14, f. 3.** Lam. Dict. 1. 311. Scopoli, ll. cc. Walter, 183. Willd. Spec. 3. 1273. Michx. Fl. 2. 66. Persoon, 2. 339. Ait. f. Hort. Kew. 4. 363. Pursh, 472. Elliott, 2. 226. DC. Prodr. 2. 293. Spreng. Syst. 3. 298. Torrey, Compend. 264. Don, Mill. 2. 263. Beck, Bot. 82. Nees, Pl. Wied. 7.

A. candidissimus. (Lower California.)

Phaca candidissima. Benth. Bot. Sulph. 13. Walp. Rep. 2. 517.

A. caryocarpus. Ker, Bot. Reg. 2, **t. 176.** Spreng. Neue Entdeck. 1. 333; Syst. 3. 301. DC. Prodr. 2. 287. Torrey, Ann. Lyc. N. Y. 2. 179; Nicol. Rep. 148; Marcy's Rep. 284. Hook. Fl. Bor.-Am. 1. 150; Lond. Journ. Bot. 6. 210. Don, Mill. 2. 258. Torr. & Gray, Fl. 1. 331. Eat. & Wr. 148. Engelm. & Gray, Pl. Lindh. 34. Gray, Pl. Lindh. 176; Pl. Wright. 1. 51; Pac. R. Rep. 12. 42; Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 192; Manual, 132. Dietr. 4. 1080. Engelm. Wisliz. Rep. 3; Pl. Up. Miss. 189. Parry, Pl. Minn. 611. Pl. Bourgeau, 255. Watson, King's Rep. 5. 435. Porter, Hayd. Rep. 1871, 480; Fl. Col. 23. Rothr. Pl. Wheeler, 36.

A. crassicarpus. Nutt.; Fras. Cat. 1813.

A. carnosus. Pursh, 740, as to fruit only. Nutt. Genera, 2. 100. Bradbury, Cat. 338. James, Long's Exped. 2. 333.

A. succulentus. Richard. Frankl. Journ. 18. Spreng. Syst. 4². 288. Don, Mill. 2. 256. Lindl. Bot. Reg. 16, **t. 1324.**

A. pachycarpus. Torr. & Gray, Fl. 1. 332. Eat. & Wr. 149. Walp. Rep. 1. 709. Dietr. 4. 1080.

A. Casei. Gray, Bot. Calif. 1. 154.

A. Chamæleuce. Gray, Ives' Rep. 10, in part; Proc. Am. Acad. 6. 222. Watson, King's Rep. 5. 74, & 443 in part.

Phaca pygmæa. Nutt.; Torr. & Gray, Fl. 1. 349. Eat. & Wr. 350. Walp. Rep. 1. 689. Dietr. 4. 1064.

A. Cobrensis. Gray, Pl. Wright. 2. 43; Proc. Am. Acad. 6. 199. Torrey, Mex. Bound. 55. Watson, King's Rep. 5. 436.

A. collinus. Dougl.; Hook. Fl. Bor.-Am. 1. 140. Don, Mill. 2. 256. Walp. Rep. 2. 866. Gray, Proc. Am. Acad. 6. 225. Watson, King's Rep. 5. 444. Torrey, Bot. Wilkes, 277.

Phaca collina. Hook. Fl. Bor.-Am. 1. 140. Don, Mill. 2. 470. Torr. & Gray, Fl. 1. 347. Eat. & Wr. 350. Walp. Rep. 1. 688. Dietr. 4. 1064.

A. Cooperi. Gray, Manual, 2 ed. 98; Proc. Am. Acad. 6. 213. Watson, King's Rep. 5. 440.

Phaca neglecta. Torr. & Gray, Fl. 1. 344 & 694. Eat. & Wr. 351. Walp. Rep. 1. 686. Torrey, Fl. N. Y. 1. 173, **t. 24.** Dietr. 4. 1062. Gray, Manual, 1 ed. 103.

A. Coulteri. Benth. Pl. Hartw. 307. Walp. Ann. 2. 394. Gray, Proc. Am. Acad. 6. 233; Bot. Calif. 1. 146. Watson, King's Rep. 5. 66 & 435.

A. Artha-Schottii. Gray, Proc. Am. Acad. 6. 209 & 7. 337.

A. Crotalariæ. Gray, Proc. Am. Acad. 6. 216; Bot. Calif. 1. 149. Boland. Cat. 10. Watson, King's Rep. 5. 441.

Phaca Crotalariæ. Benth. Pl. Hartw. 307. Walp. Ann. 2. 369.

Phaca densifolia. Torrey, Pac. R. Rep. 4. 80.

Var. **virgatus.** Gray, Bot. Calif. 1. 149.

A. curtipes. Gray, Proc. Calif. Acad. 3. 103; Proc. Am. Acad. 6. 217; Bot. Calif. 1. 148. Boland. Cat. 10. Watson, King's Rep. 5. 441.

A. cyaneus. Gray, Pl. Fendl. 34. Walp. Ann. 2. 375. Torr. & Gray, Pac. R. Rep. 2. 163. Torrey, Mex. Bound. 56. Watson, Am. Naturalist, 9. 270.

A. Shortianus, var. (?) *minor.* Gray, Proc. Am. Acad. 6. 211. Watson, King's Rep. 5. 440.

A. Shortianus. Watson, Pl. Wheeler, 7.

A. debilis. Gray, Proc. Acad. Philad. 1863, 60.

Phaca debilis. Nutt.; Torr. & Gray, Fl. 1. 345. Eat. & Wr. 351. Walp. Rep. 1. 686. Dietr. 4. 1063. Gray, Proc. Am. Acad. 6. 233.

A. decumbens. Gray, Proc. Am. Acad. 6. 220. Watson, King's Rep. 5. 445. Porter, Fl. Col. 29.

Homalobus decumbens. Nutt.; Torr. & Gray, Fl. 1. 352. Eat. & Wr. 272. Walp. Rep. 1. 711. Dietr. 4. 1099. Hook. in Lond. Journ. Bot. 6. 215.

A. didymocarpus. Hook. & Arn. Bot. Beechey, 334, **t. 81.** Torr. & Gray, Fl. 1. 693. Walp. Rep. 1. 701. Dietr. 4. 1082. Torrey, Pac. R. Rep. 4. 80; Mex. Bound. 55. Gray, Proc. Am. Acad. 6. 198; Bot. Calif. 1. 146. Boland. Cat. 10. Watson, King's Rep. 5. 436.

A. Catalinensis & *nigrescens.* Nutt. Pl. Gambel. in Proc. Acad. Philad. 4. 9, & Journ. of same, 2. 1. 152 & 153.

A. diphysus. Gray, Pl. Fendl. 34; Pl. Wright. 1. 52; Ives's Rep. 10; Proc. Am.

Acad. 6. 193; Bot. Calif. 1. 147. Walp. Ann. 2. 396. Torr. & Gray, Pac. R. Rep. 2. 120. Torrey, same, 4. 80. Durand, Fl. Utah, 162. Watson, King's Rep. 5. 65 & 435; Pl. Wheeler, 7. Porter, Hayd. Rep. 1871, 481. Parry, Am. Naturalist, 9. 270. Brandegee, Fl. S. W. Col. 234.

A. distortus. Torr. & Gray, Fl. 1. 333. Eat. & Wr. 149. Walp. Rep. 1. 700. Gray, Pl. Fendl. 35; Pl. Wright. 1. 52; Proc. Am. Acad. 6. 207; Manual, 133; Hall's Pl. Texas, 7. Dietr. 4. 1080. Watson, King's Rep. 5. 439. Young, Fl. Texas, 227.

A. Douglasii. Gray, Proc. Am. Acad. 6. 215; Bot. Calif. 1. 150. Boland. Cat. 10. Watson, King's Rep. 5. 441.

Phaca Douglasii. Torr. & Gray, Fl. 1. 346. Hook. & Arn. Bot. Beechey, 334. Eat. & Wr. 351. Walp. Rep. 1. 687. Dietr. 4. 1062.

A. Drummondii. Dougl.; Hook. Fl. Bor.-Am. 1. 153, **t. 57**; Lond. Journ. Bot. 6. 212. Don, Mill. 2. 263. Torr. & Gray, Fl. 1. 337. Eat. & Wr. 147. Walp. Rep. 1. 705. Dietr. 4. 1087. Engelm. Pl. Upp. Miss. 189. Gray, Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 200. Pl. Bourgeau, 255. Watson, King's Rep. 5. 437. Porter, Fl. Col. 24. Rothr. Pl. Wheeler, 36.

A. episcopus. Watson, Proc. Am. Acad. 10. 346.

A. eriocarpus. Watson, King's Rep. 5. 71 & 440. Parry, Am. Naturalist, 9. 270. Gray, Bot. Calif. 1. 151.

A. Fendleri. Gray, Pl. Wright. 2. 44; Ives's Rep. 10; Proc. Am. Acad. 6. 224 & 7. 527. Torrey, Sitgr. Rep. 158; Mex. Bound. 56. Watson, King's Rep. 5. 443. Porter, Fl. Col. 28. Rothr. Pl. Wheeler, 36.

Phaca Fendleri. Gray, Pl. Fendl. 36. Walp. Ann. 2. 369.

A. filipes. Torrey, Bot. Wilkes, 278. Gray, Proc. Am. Acad. 6. 226; Bot. Calif. 1. 152. Watson, King's Rep. 5. 75 & 444.

A. flavus. Nutt.; Torr. & Gray, Fl. 1. 335. Eat. & Wr. 150. Walp. Rep. 1. 703. Dietr. 4. 1085. Gray, Proc. Am. Acad. 6. 201. Watson, King's Rep. 5. 437.

A. flexuosus. Dougl.; Hook. Fl. Bor.-Am. 1. 140. Don, Mill. 2. 256 & 470. Walp. Rep. 2. 866. Dietr. 4. 1078. Gray, Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 224. Watson, King's Rep. 5. 443. Porter, Hayd. Rep. 1870, 475; Fl. Col. 28.

Phaca flexuosa. Hook. Fl. Bor.-Am. 1. 140. Torr. & Gray, Fl. 1. 348. Eat. & Wr. 350. Walp. Rep. 1. 688. Dietr. 4. 1064.

Phaca elongata. Hook.; same citations. Don, Mill. 2. 470. Torrey, Nicol. Rep. 149. Engelm. Pl. Upp. Miss. 189. Pl. Bourgeau, 255.

A. frigidus, Gray. See syn. (under *Phaca*) in DC. Astrag. 57, & Prodr. 2. 273; Ledeb. Fl. Ross. 1. 575; Trautv. Pl. Middend. 1. 48; Bunge, Astrag. 2. 28.

Var. **Americanus.**

Phaca frigida. Richard. Frankl. Journ. 17. Pl. Bourgeau, 255.

P. frigida, var. *Americana.* Hook. Fl. Bor.-Am. 1. 140. Torr. & Gray, Fl. 1. 344. Eat. & Wr. 349. Walp. Rep. 1. 685.

A. frigidus. Gray, Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 219. Watson, King's Rep. 5. 442. Porter, Hayd. Rep. 1871, 481; Fl. Col. 27.

Var. **littoralis.**

Phaca frigida. Hook. & Arn. Bot. Beechey, 122. Seem. Bot. Herald, 28. Hook. f. Arct. Pl. 289, in part.

P. frigida, var. *littoralis.* Hook. Fl. Bor.-Am. 1. 140. Torr. & Gray, Fl. 1. 344.

A. frigidus. Rothr. Fl. Alask. 445.

A. Geyeri. Gray, Proc. Am. Acad. 6. 214; Bot. Calif. 1. 146. Watson, King's Rep. 5. 72 & 440. Coulter, Hayd. Rep. 1872, 764.

Phaca annua. Geyer; Hook. in Lond. Journ. Bot. 6. 213. Walp. Ann. 1. 234. Gray, Pl. Wright. 2. 45.

A. Gibbsii. Kellogg, Proc. Calif. Acad. 2. 161, **f. 50.** Watson, King's Rep. 5. 446.

A. cyrtoides. Gray, Proc. Am. Acad. 6. 201 & 7. 525; Bot. Calif. 1. 152. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 75 & 444; Pl. Wheeler, 7.

A. glaber. Michx. Fl. 2. 66. Pursh, 472. Nutt. Genera, 2. 99. Elliott, 2. 227. DC. Prodr. 2. 293. Spreng. Syst. 3. 300. Don, Mill. 2. 263. Torr. & Gray, Fl. 1. 336. Eat. & Wr. 138. Dietr. 4. 1086. Chapman, 97. Gray, Proc. Am. Acad. 6. 208. Wood, Bot. & Fl. 94. Watson, King's Rep. 5. 439.

A. glabriusculus. Gray, Proc. Am. Acad. 6. 204 & 7. 527. Watson, King's Rep. 5. 439. Porter, Fl. Col. 26.

Phaca glabriuscula. Hook. Fl. Bor.-Am. 1. 144. Don, Mill. 2. 470. Torr. & Gray, Fl. 1. 346. Eat. & Wr. 349. Walp. Rep. 1. 687. Dietr. 4. 1063. Seem. Bot. Herald, 51.

Var. **major.** Gray, Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 204.

A. glareosus. Dougl.; Hook. Fl. Bor.-Am. 1. 152; Lond. Journ. Bot. 6. 211. Don, Mill. 2. 271. Torr. & Gray, Fl. 333 & 693. Hook. & Arn. Bot. Beechey, 334. Eat. & Wr. 148. Walp. Rep. 1. 701 & 2. 879. Dietr. 4. 1081. Torrey, Mex. Bound. 50; Bot. Wilkes, 276. Gray, Proc. Am. Acad. 211. Watson, King's Rep. 5. 440.

A. argophyllus. Nutt.; Torr. & Gray, Fl. 1. 331, excl. syn. Eat. & Wr. 149. Walp. Rep. 1. 700. Dietr. 4. 1080.

A. gracilentus. Gray, Proc. Am. Acad. 6. 223. Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 443.

Phaca gracilenta. Gray, Pl. Fendl. 36. Walp. Ann. 2. 369.

A. gracilis. Nutt. Genera, 2. 100. DC. Prodr. 2. 284. Don, Mill. 2. 256. Torr. & Gray, Fl. 1. 329. Eat. & Wr. 148. Nees, Pl. Wied, 7. Torrey, Nicol. Rep. 148; Frem. Rep. 89. Dietr. 4. 1078. Hook. in Lond. Journ. Bot. 6. 210. Engelm. Pl. Upp. Miss. 189. Cooper, Pac. R. Rep. 12. 42. Gray, Proc. Am. Acad. 6. 202. Watson, King's Rep. 5. 438. Porter, Fl. Col. 35. Rothr. Pl. Wheeler, 36.

Dalea parviflora. Pursh, 474.

Psoralea parviflora. Poir. Suppl. 4. 590.

Phaca parvifolia. Nutt.; Torr. & Gray, Fl. 1. 348. Eat. & Wr. 349. Walp. Rep. 1. 688. Dietr. 4. 1064.

A. Grayi. Parry; Watson, Am. Naturalist, 8. 212.

A. Hallii. Gray, Proc. Am. Acad. 6. 224. Watson, King's Rep. 5. 443. Porter, Fl. Col. 28. Rothr. Pl. Wheeler, 36.

? *A. vaginatus.* Richard. in Frankl. Journ. 17, not Pall. Hook. Fl. Bor.-Am. 1. 149. Don, Mill. 2. 283. Torr. & Gray, Fl. 1. 329. Eat. & Wr. 138. Referred to *Phaca australis* by Planchon, fide Gray in Proc. Am. Acad. 6. 207.

A. Phacæ debili aff. Gray, Proc. Acad. Philad. 1863, 60.

A. Hartwegi. Benth. Pl. Hartw. 10. Dietr. 4. 1086. Torrey, Mex. Bound. 5[illegible]; Gray, Proc. Am. Acad. 6. 199. Watson, King's Rep. 5. 436.

A. Haydenianus. Gray in Brandegee, Fl. S. W. Col. 235.

A. Hookerianus. Dietr. 4. 1086. Gray, Proc. Am. Acad. 6. 215; Bot. Calif. 1. 147. Watson, King's Rep. 5. 73 & 441.

Phaca Hookeriana. Torr. & Gray, 1. 693. Walp. Rep. 1. 685.

A. pictus, var. *foliosus.* Anderson, Cat. Pl. Nev. 120.

A. Hornii. Gray, Proc. Am. Acad. 7. 398; Bot. Calif. 1. 150. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 441.

A. humillimus. Gray, in Brandegee, Fl. S. W. Col. 235.

A. humistratus. Gray, Pl. Wright. 2. 43; Pl. Thurb. 302; Proc. Am. Acad. 6. 201. Walp. Ann. 4. 524. Torrey, Pac. R. Rep. 4. 80; Mex. Bound. 55. Watson, King's Rep. 5. 437.

A. hypoglottis. Linn. Mant. 2. 274. See syn. in DC. Astrag. 118; Poir. Suppl. 1. 505; Ledeb. Fl. Ross. 1. 602; Bunge, Astrag. 2. 83; Lange, Bidr. Syn. (Bull. Soc. Bot. France, 20. 192). — Richard. in Frankl. Journ. 18. Nutt. Genera, 2. 99. James, Cat. 186. DC. Prodr. 2. 281. Spreng. Syst. 3. 303. Torrey, Ann. Lyc. N. Y. 2. 179; Nicol. Rep. 148; Frem. Rep. 89. Hook. Fl. Bor.-Am. 1. 148; Lond. Journ. Bot. 6, 210, excl. var. Don, Mill. 2. 253. Torr. & Gray, Fl. 1. 328 & 692. Hook. & Arn. Bot. Beechey, 334. Eat. & Wr. 148. Walp. Rep. 1. 695. Dietr. 4. 1071. Gray, Pl. Fendl. 35; Proc. Acad. Philad. 60; Proc. Am. Acad. 6. 197. Seem. Bot. Herald, 51. Engelm. Pl. Upp. Miss. 189. Hook. f. Arct. Pl. 289. Pl. Bourgeau, 255. Rothr. Fl. Alask. 445; Pl. Wheeler, 36. Porter, Hayd. Rep. 1870, 474; 1871, 481; Fl. Col. 24. Watson, King's Rep. 5. 68 & 436. Coulter, Hayd. Rep. 1872, 764.

A. agrestis. Dougl.; Don, Mill. 2. 257. Walp. Rep. 2. 866. Dietr. 4. 1081.

A. goniatus. Nutt.; Torr. & Gray, Fl. 1. 330. Eat. & Wr. 149. Walp. Rep. 1. 699. Dietr. 4. 1080.

A. inflexus. Dougl.; Hook. Fl. Bor.-Am. 1. 151. Don, Mill. 2. 256. Torr. & Gray, Fl. 1. 333. Eat. & Wr. 138. Walp. Rep. 1. 701 & 2. 866. Dietr. 4. 1078. Gray, Proc. Am. Acad. 6. 212; Bot. Calif. 1. 151. Watson, King's Rep. 5. 440.

A. iodanthus. Watson, King's Rep. 5. 70 & 440. Porter, Fl. Col. 25. Gray, Bot. Calif. 1. 154.

A. adsurgens. Torrey, Stansb. Rep. 385, not Pall. Durand, Fl. Utah, 162.

A. jejunus. Watson, King's Rep. 5. 73 & 442, **t. 13.**

A. junceus. Gray, Proc. Am. Acad. 6. 230 & 7. 527. Watson, King's Rep. 5. 76 & 445. Porter, Hayd. Rep. 1871, 481; Fl. Col. 29. Coulter, Hayd. Rep. 1872, 764.

Homalobus junceus. Nutt.; Torr. & Gray, Fl. 1. 351. Eat. & Wr. 272. Walp. Rep. 1. 711. Dietr. 4. 1099.

Homalobus orthocarpus. Nutt.; same citations. Hook. in Lond. Journ. Bot. 6. 214.

A. diversifolius. Gray, Proc. Am. Acad. 6. 230. Porter, Fl. Col. 29.

A. Kentrophyta. Gray, Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 231; Bot. Calif. 1. 156. Porter, Hayd. Rep. 1870, 475; 1871, 481; Fl. Col. 30. Watson, King's Rep. 5. 77 & 445. Parry, Am. Naturalist, 9. 270.

Kentrophyta montana. Nutt.; Torr. & Gray, Fl. 1. 353 & 694. Eat. & Wr. 289. Walp. Rep. 1. 712. Torrey, Frem. Rep. 89; Pac. R. Rep. 4. 80. Dietr. 4. 1100. Hook. in Lond. Journ. Bot. 6. 215. Gray, Pl. Fendl. 38. Engelm. Pl. Upp. Miss. 189.

K. viridis. Nutt.; Torr. & Gray, Fl. 1. 353. Eat. & Wr. 289. Walp. Rep. 1. 712. Dietr. 4. 1100.

Var. **elatus.** Watson, King's Rep. 5. 77. Gray, Bot. Calif. 1. 157.

A. Lemmoni. Gray, Proc. Am. Acad. 8. 626; Bot. Calif. 1. 155.

A. lentiformis. Gray, Bot. Calif. 1. 156.

A. lentiginosus. Dougl.; Hook. Fl. Bor.-Am. 1. 151. Don, Mill. 2. 257. Torr. & Gray, Fl. 1. 333. Eat. & Wr. 138. Walp. Rep. 1. 700 & 2. 866. Dietr. 4. 1079.

Gray, Proc. Am. Acad. 6. 194; Bot. Calif. 1. 147. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 65 & 435; Pl. Wheeler, 7. Torrey, Bot. Wilkes, 275.

A. diaphanus. Dougl.; Hook. Fl. Bor.-Am. 1. 151. Don, Mill. 2. 472. Torr. & Gray, Fl. 1. 151. Eat. & Wr. 148. Walp. Rep. 1. 700. Dietr. 4. 1081. Gray, Proc. Am. Acad. 6. 233. Watson, King's Rep. 5. 446.

Var. **Fremonti.** Watson, King's Rep. 5. 66; Pl. Wheeler, 7. Gray, Bot. Calif. 1. 147.

A. Fremontii. Torr. & Gray, Pac. R. Rep. 4. 80, excl. var. Gray, Proc. Am. Acad. 6. 194.

A. ineptus. Gray, Proc. Am. Acad. 7. 525. Anderson, Cat. Pl. Nev. 119.

A. leptaleus. Gray, Proc. Am. Acad. 6. 220. Watson, King's Rep. 5. 442. Porter, Fl. Col. 28.

Phaca pauciflora. Nutt.; Torr. & Gray, Fl. 1. 348. Eat. & Wr. 349. Walp. Rep. 1. 688.

Astragalus or *Phaca?* Gray, Pl. Fendl. 33.

A. pauciflorus. Gray, Proc. Acad. Philad. 1863, 60.

A. leptocarpus. Torr. & Gray, Fl. 1. 334 & 693. Eat. & Wr. 149. Walp. Rep. 1. 701. Engelm. & Gray, Pl. Lindh. 8. Dietr. 4. 1082. Gray, Proc. Am. Acad. 6. 200; Hall's Pl. Texas, 7. Watson, King's Rep. 5. 437. Young, Fl. Texas, 228.

A. leucophyllus. Torr. & Gray, Fl. 1. 336. Eat. & Wr. 150. Gray, Proc. Am. Acad. 6. 218; Bot. Calif. 1. 148. Watson, King's Rep. 5. 442. Torrey, Bot. Wilkes, 277.

Phaca leucophylla. Hook. & Arn. Bot. Beechey, 333. Torr. & Gray, Fl. 1. 694. Walp. Rep. 1. 687. Dietr. 4. 1063.

A. leucopsis. Torrey, Mex. Bound. 56, **t. 16.** Gray, Proc. Am. Acad. 6. 217; Bot. Calif. 1. 149. Boland. Cat. 10. Watson, King's Rep. 5. 441.

Phaca canescens. Nutt.; Torr. & Gray, Fl. 1. 344, not Hook. & Arn. Eat. & Wr. 351.

Phaca leucopsis. Torr. & Gray, Fl. 1. 694.

A. Lindheimeri. Gray, Pl. Wright. 1. 52; Proc. Am. Acad. 6. 207. Torr. & Gray, Pac. R. Rep. 2. 163. Walp. Ann. 4. 525. Watson, King's Rep. 5. 439.

A. lonchocarpus. Torrey, Pac. R. Rep. 4. 80. Gray, Proc. Am. Acad. 6. 219. Watson, King's Rep. 5. 442. Porter, Fl. Col. 27. Parry, Am. Naturalist, 9. 270.

Phaca macrocarpa. Gray, Pl. Fendl. 36. Walp. Ann. 2. 369.

A. lotiflorus. Hook. Fl. Bor.-Am. 1. 152. Don, Mill. 2. 472. Gray, Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 208. Watson, King's Rep. 5. 439. Porter, Fl. Col. 26. Rothr. Pl. Wheeler, 36.

Phaca lotiflora. Torr. & Gray, Fl. 1. 349. Eat. & Wr. 349. Walp. Rep. 1. 689. Dietr. 4. 1064.

Var. **brachypus.** Gray, Proc. Am. Acad. 6. 209; Hall's Pl. Texas, 7.

A. Lyallii. Gray, Proc. Am. Acad. 6. 195. Watson, King's Rep. 5. 435.

A. macrodon. Gray, Proc. Am. Acad. 6. 216; Bot. Calif. 1. 150. Watson, King's Rep. 5. 441.

Phaca macrodon. Hook. & Arn. Bot. Beechey, 333. Torr. & Gray, Fl. 1. 694. Walp. Rep. 1. 687. Dietr. 4. 1063.

A. malacus. Gray, Proc. Am. Acad. 7. 336; Bot. Calif. 1. 151. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 67 & 437.

A. Fremontii, var. Torrey, Pac. R. Rep. 4. 80. Gray, Proc. Am. Acad. 6. 233.

A. Parryi. Anderson, Cat. Pl. Nev. 120.

A. megacarpus. Gray, Proc. Am. Acad. 6. 215; Bot. Calif. 1. 148. Watson, King's Rep. 5. 441.

Phaca megacarpa. Nutt.; Torr. & Gray, Fl. 1. 343. Eat. & Wr. 350. Walp. Rep. 1. 685.

Var. **Parryi.** Gray, Bot. Calif. 1. 148. Parry, Am. Naturalist, 9. 270.

A. Menziesii. Gray, Proc. Am. Acad. 6. 217; Bot. Calif. 1. 150. Boland. Cat. 10. Watson, King's Rep. 5. 441. Torrey, Bot. Wilkes, 277.

Phaca densifolia. Smith, Rees' Cyc. n. 9. DC. Prodr. 2. 274. Spreng. Syst. 4. 287. Don, Mill. 2. 248. Hook. Icon. t. **282.** Hook. & Arn. Bot. Beechey, 138 & 334. Torr. & Gray, Fl. 1. 344. Eat. & Wr. 351. Benth. Pl. Hartw. 306.

Phaca Nuttallii. Torr. & Gray, Fl. 1. 343. Eat. & Wr. 351. Walp. Rep. 1. 685.

A. densifolius. Torrey, Pac. R. Rep. 7. 10, not Lam.

A. Mexicanus. DC. Pl. Rar. Gen. 4. 16, t. **3.** Torr. & Gray, Fl. 1. 693. Gray, Pl. Wright. 1. 51; Proc. Am. Acad. 6. 193; Manual, 132. Watson, King's Rep. 5. 435. Porter, Fl. Col. 23.

A. trichocalyx. Nutt.; Torr. & Gray, Fl. 1. 332. Eat. & Wr. 149. Walp. Rep. 1. 700. Engelm. Am. Journ. Sci. 1. 46. 96. Dietr. 4. 1080. Young, Fl. Texas, 227.

A. microcystis. Gray, Proc. Am. Acad. 6. 220. Watson, King's Rep. 5. 442.

A. microlobus. Gray, Proc. Am. Acad. 6. 202. Watson, King's Rep. 5. 438. Porter, Fl. Col. 25.

A. gracilis. James, Cat. 186. Torrey, Ann. Lyc. N. Y. 2. 179. Gray, Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 60.

A. miser. Dougl.; Hook. Fl. Bor.-Am. 1. 153. Torr. & Gray, Fl. 1. 338. Gray, Proc. Am. Acad. 6. 228. Watson, King's Rep. 5. 444.

A. debilis. Walp. Rep. 1. 710. Dietr. 4. 1098.

A. Missouriensis. Nutt. Genera, 2. 99. James, Cat. 186; Long's Exped. 2. 333. DC. Prodr. 2. 287. Spreng. Syst. 3. 300. Don, Mill. 2. 258. Torr. & Gray, Fl. 1. 331 & 692; Pac. R. Rep. 2. 163. Nees, Pl. Wied, 7. Dietr. 4. 1080. Gray, Pl. Fendl. 35; Pl. Thurb. 300; Pac. R. Rep 12. 41; Ives's Rep. 10; Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 210. Torrey, Sitgr. Rep. 158; Pac. R. Rep. 4. 80. Engelm. Pl. Upp. Miss. 189. Pl. Bourgeau, 255. Watson, King's Rep. 5. 440. Porter, Hayd. Rep. 1871, 481; Fl. Col. 26. Rothr. Pl. Wheeler, 36.

A. melanocarpus. Nutt. Fras. Cat. 1813. Richard. in Frankl. Journ. 18. Hook. Fl. Bor.-Am. 1. 150. Don, Mill. 2. 472.

Phaca cretacea. Buckley, Proc. Acad. Philad. 1861, 452; fide Gray, same, 1862, 162. Walp. Ann. 7. 740.

A. mollissimus. Torrey, Ann. Lyc. N. Y. 2. 178; Frem. Rep. 89; Pac. R. Rep. 4. 80. Don, Mill. 2. 271. Torr. & Gray, Fl. 1. 337; Pac. R. Rep. 2. 163. Eat. & Wr. 148. Walp. Rep. 1. 709. Dietr. 4. 1096. Gray, Pl. Fendl. 35; Pl. Wright. 1. 53 & 2. 42; Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 195. Engelm. Pl. Upp. Miss. 189. Watson, King's Rep. 5. 436. Porter, Fl. Col. 23.

Phaca villosa. James, Cat. 186.

A. glareoso aff. Gray, Am. Journ. Sci. 2. 33. 410.

A. Mortoni. Nutt. in Journ. Acad. Philad. 7. 19. Torr. & Gray, Fl. 1. 330. Eat. & Wr. 138. Walp. Rep. 1. 699. Dietr. 4. 1079. Gray, Proc. Am. Acad. 6. 196; Bot. Calif. 1. 155. Anderson, Cat. Pl. Nev. 120.

A. tristis. Nutt.; Torr. & Gray, Fl. 1. 336. Eat. & Wr. 150. Walp. Rep. 1. 704. Dietr. 4. 1086.

A. spicatus. Nutt.; same citations. Torrey, Nicol. Rep. 148 ?

A. Canadensis, var. *Mortoni*. Watson, King's Rep. 5. 68. Porter, Hayd. Rep. 1871, 481. Coulter, same, 1872, 764.

A. multiflorus. Gray, Proc. Am. Acad. 6. 226; Bot. Calif. 1. 153. Watson, King's Rep. 5. 75 & 444; Pl. Wheel. 7. Porter, Fl. Col. 29. Torrey, Bot. Wilkes, 278. Rothr. Pl. Wheeler, 36.

A. tenellus. Pursh, 473. Poir. Suppl. 5. 564.

Ervum multiflorum. Pursh, 739. Poir. Suppl. 5. 671. Bradbury, Cat. 337. Spreng. Syst. 3. 270.

Orobus dispar. Nutt. Genera, 2. 95. James, Cat. 186; Long's Exped. 2. 339. Seringe in DC. Prodr. 2. 380. Torrey, Ann. Lyc. N. Y. 2. 180. Spreng. Syst. 3. 261. Don, Mill. 2. 341. Dietr. 4. 1122.

Phaca nigrescens. Hook. Fl. Bor.-Am. 1. 143. Don, Mill. 2. 470.

Homalobus multiflorus. Torr. & Gray, Fl. 1. 351. Eat. & Wr. 272. Walp. Rep. 1. 711. Torrey, Nicol. Rep. 149. Dietr. 4. 1099. Hook. in Lond. Journ. Bot. 6. 214. Engelm. Pl. Upp. Miss. 189.

Homalobus dispar. Nutt.; Torr. & Gray, Fl. 1. 350. Eat. & Wr. 271. Walp. Rep. 1. 711. Dietr. 4. 1099.

A. nigrescens. Gray, Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 60. Pl. Bourgeau, 255.

A. nothoxys. Gray, Proc. Am. Acad. 6. 232. Watson, King's Rep. 5. 446.

A. nudus. Watson, King's Rep. 5. 74 & 443. Gray, Bot. Calif. 1. 153.

A. Nuttallianus. DC. Prodr. 2. 289. Don, Mill. 2. 259. Torr. & Gray, Fl. 1. 334. Walp. Rep. 1. 702. Engelm. & Gray, Pl. Lindh. 7. Dietr. 4. 1053. Scheele, Roem. Texas, 430. Torrey, Marcy's Rep. 284; Mex. Bound. 55. Gray, Ives's Rep. 10; Proc. Am. Acad. 6. 199; Hall's Pl. Texas, 7; Bot. Calif. 1. 146. Watson, King's Rep. 5. 68 & 436.

A. micranthus. Nutt. in. Journ. Acad. Philad. 3. 122 (Litt.-Ber. zu Linnæa, 1829, 40), not Desv. Eat. & Wr. 149.

Var. **trichocarpus.** Torr. & Gray, Fl. 1. 334; Pac. R. Rep. 2. 163. Engelm. & Gray, Pl. Lindh. 7. Gray, Pl. Fendl. 36; Proc. Am. Acad. 6. 199; Hall's Pl. Texas, 7. Watson, King's Rep. 5. 68.

A. trichocarpus. Young, Fl. Texas, 223.

Var. **canescens.** Torr. & Gray, Pac. R. Rep. 2. 163. Parry, Am. Naturalist, 9. 270.

A. Nuttallianus, vars. Gray, Pl. Wright. 1. 52 & 2. 43.

A. obcordatus. Elliott, 2. 227. DC. Prodr. 2. 306. Don, Mill. 2. 272. Torr. & Gray, Fl. 1. 332. Eat. & Wr. 148. Dietr. 4. 1099. Gray, Pl. Fendl. 35; Pl. Wright. 1. 53; Proc. Am. Acad. 6. 208. Chapman, 97. Wood, Bot. & Fl. 94. Watson, King's Rep. 5. 439.

A. Elliottii. Dietr. 4. 1080.

A. obscurus. Watson, King's Rep. 5. 69 & 437. Gray, Bot. Calif. 1. 155.

A. oocarpus. Gray, Proc. Am. Acad. 6. 213; Bot. Calif. 1. 149. Watson, King's Rep. 5. 440.

A. Crotalariæ. Torr. Mex. Bound. 56, **t. 17.**

A. oophorus. Watson, King's Rep. 5. 73 & 441. Gray, Bot. Calif. 1. 148.

A. Oreganus. Nutt.; Torr. & Gray, Fl. 1. 335. Eat. & Wr. 150. Walp. Rep. 1. 703. Dietr. 4. 1085. Gray, Proc. Am. Acad. 6. 202. Watson, King's Rep. 5. 438.

A. oroboides. Hornem. Fl. Dan. 8, **t. 1396.** See syn. in Ledeb. Fl. Ross. 1. 692; Gray, Proc. Am. Acad. 6. 205; Bunge, Astrag. 2. 26.

Var. **Americanus.** Gray, l. c. Watson, King's Rep. 5. 438. Porter, Hayd. Rep. 1871, 481; Fl. Col. 26. Rothr. Pl. Wheeler, 36.

Phaca elegans. Hook. Fl. Bor.-Am. 1. 144. Don, Mill. 2. 471. Torr. & Gray, Fl. 1. 345 & 694. Eat. & Wr. 349. Walp. Rep. 1. 686. Torrey, Frem. Rep. 89. Dietr. 4. 1063. Pl. Bourgeau, 255.

Phaca parviflora. Nutt.; Torr. & Gray, Fl. 1. 348. Eat. & Wr. 350. Walp. Rep. 1. 688. Dietr. 4. 1064. Gray, Proc. Am. Acad. 6. 233.

A. oroboides. Hook. f. Arct. Pl. 289, in part. Gray, Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 60.

A. oxyphysus. Gray, Proc. Calif. Acad. 3. 103; Bot. Calif. 1. 148. Boland. Cat. 10. Watson, King's Rep. 5. 442.

A. Palliseri. Gray, Proc. Am. Acad. 6. 227. Watson, King's Rep. 5. 444.

A. Palmeri. Gray, Proc. Am. Acad. 7. 398. Watson, King's Rep. 5. 445.

A. Pattersoni. Gray in Brandegee, Fl. S. W. Col. 285.

A. Parryi. Gray, Am. Journ. Sci. 2. 33. 410 (Bull. Soc. Bot. France, 9. 680); Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 211. Walp. Ann. 7. 738. Watson, King's Rep. 5. 440. Porter, Fl. Col. 27. Rothr. Pl. Wheeler, 36.

A. succumbens. Torr. & Gray, Pac. R. Rep. 2, 163, not Dougl.

A. pauciflorus. Hook. Fl. Bor.-Am. 1. 149. Don, Mill. 2. 472. Torr. & Gray, Fl. 1. 329; Pac. R. Rep. 2. 163. Eat. & Wr. 138. Walp. Rep. 1. 696. Dietr. 4. 1075. Pl. Bourgeau, 255. Gray, Proc. Am. Acad. 6. 228. Watson, King's Rep. 5. 444. Porter, Hayd. Rep. 1871, 481.

A. pectinatus. Dougl.; Hook. Fl. Bor.-Am. 1. 142. Don, Mill. 2. 257. Gray, Pac. R. Rep. 12. 42; Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 221. Watson, King's Rep. 5. 443. Porter, Fl. Col. 28. Rothr. Pl. Wheeler, 36.

Phaca pectinata. Hook. Fl. Bor.-Am. 1. 142, **t. 54**; Lond. Journ. Bot. 6. 214. Don, Mill. 2. 470. Torr. & Gray, Fl. 1. 317. Eat. & Wr. 350. Walp. Rep. 1. 687. Dietr. 4. 1063. Engelm. Pl. Upp. Miss. 189. Pl. Bourgeau, 255.

A. pictus. Gray, Proc. Am. Acad. 6. 214. Watson, King's Rep. 5. 441. Coulter, Hayd. Rep. 1872, 764. Porter, Fl. Col. 27.

Phaca picta. Gray, Pl. Fendl. 37. Walp. Ann. 2. 569.

Var. **filifolius.** Gray, Proc. Am. Acad. 6. 215. Porter, Fl. Col. 27.

Psoralea longifolia. Pursh, 741. Poir. Suppl. 4. 588. Bradbury, Cat. 338. DC. Prodr. 2. 220. Don, Mill. 2. 204. Torr. & Gray, Fl. 1. 300 & 688. Dietr. 4. 1024.

Orobus longifolius. Nutt. Genera, 2. 95. James, Cat. 186. Seringe, DC. Prodr. 2. 380. Torrey, Ann. Lyc. N. Y. 2. 180. Spreng. Syst. 3. 258. Don, Mill. 2. 341.

Phaca longifolia. Nutt.; Torr. & Gray, Fl. 1. 346. Walp. Rep. 1. 687. Torrey, Frem. Rep. 89. Hook. in Lond. Journ. Bot. 6. 213. Dietr. 4. 1063.

A. filifolius. Gray, Pac. R. Rep. 12. 42, **t. 1, A**; Ives's Rep. 10; Proc. Acad. Philad. 1863, 60.

A. Plattensis. Nutt.; Torr. & Gray, Fl. 1. 332. Eat. & Wr. 149. Walp. Rep. 1. 700. Dietr. 4. 1080. Gray, Pl. Wright. 1. 52; Proc. Am. Acad. 6. 193; Manual, 132. Engelm. Pl. Upp. Miss. 189. Watson, King's Rep. 5. 435. Porter, Fl. Col. 23.

A. caryocarpus. Torrey, Ann. Lyc. N. Y. 2. 179.

A. Mexicanus. Gray, Pl. Lindh. 176.

Var. **Tennesseensis.** Gray, Proc. Am. Acad. 6. 193; Manual, 132.

A. Tennesseensis. Gray in Chapman, 98.

A. Plattensis. Gray, Manual, 4 ed. xci.

A. platytropis. Gray, Proc. Am. Acad. 6. 526; Bot. Calif. 1. 147. Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 66 & 435.

A. polaris. Benth. in Hook. f. Arct. Pl. 323. Gray, Proc. Am. Acad. 6. 233. Rothr. Fl. Alask. 445. Watson, King's Rep. 5. 446.

Oxytropis polaris. Seemann, Voy. Herald, Narrative.

A. porrectus. Watson, King's Rep. 5. 75 & 444. Gray, Bot. Calif. 1. 153.

A. Preussii. Gray, Proc. Am. Acad. 6. 222. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 443.

A. pterocarpus. Watson, King's Rep. 5. 71 & 439, **t. 12.** Gray, Bot. Calif. 1. 154.

A. pubentissimus. Torr. & Gray, Fl. 1. 693. Walp. Rep. 1. 702. Dietr. 4. 1084. Gray, Proc. Am. Acad. 6. 209; Bot. Calif. 1. 150. Watson, King's Rep. 5. 439. Porter, Fl. Col. 26.

A. multicaulis. Nutt.; Torr. & Gray, Fl. 1. 335, not Ledeb. Eat. & Wr. 150.

A. Pulsiferæ. Gray, Proc. Am. Acad. 10. 69; Bot. Calif. 1. 150.

A. Purshii. Dougl.; Hook. Fl. Bor.-Am. 1. 152. Don, Mill. 2. 271. Torr. & Gray, Fl. 1. 336 & 693; Pac. R. Rep. 2. 120. Eat. & Wr. 147. Walp. Rep. 1. 704. Dietr. 4. 1086. Durand, Fl. Utah, 162. Gray, Proc. Am. Acad. 6. 212; Bot. Calif. 1. 151. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 72 & 440. Torrey, Bot. Wilkes, 277.

Phaca mollissima. Nutt.; Torr. & Gray, Fl. 1. 350 & 694. Eat. & Wr. 350. Walp. Rep. 1. 689. Dietr. 4. 1065. Hook. in Lond. Journ. Bot. 6. 214.

A. pycnostachyus. Gray, Proc. Am. Acad. 6. 527; Bot. Calif. 1. 155. Boland. Cat. 10. Watson, King's Rep. 5. 443.

A. racemosus. Pursh, 740. Poir. Suppl. 5. 564. Bradbury, Cat. 338. DC. Prodr. 2. 294. Torrey, Ann. Lyc. N. Y. 2. 179; Nicol. Rep. 148. Don, Mill. 2. 294. Torr. & Gray, Fl. 1. 337. Nees, Pl. Wied, 7. Dietr. 4. 1087. Engelm. Pl. Upp. Miss. 189. Gray, Pac. R. Rep. 12. 42; Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 200. Watson, King's Rep. 5. 437. Porter, Fl. Col. 25. Rothr. Pl. Wheeler, 36.

A. galegoides. Nutt. Genera, 2. 100. James, Cat. 186. Spreng. Syst. 3. 300. Eat. & Wr. 148.

A. reflexus. Torr. & Gray, Fl. 1. 334. Eat. & Wr. 149. Walp. Rep. 1. 701. Dietr. 4. 1082. Gray, Proc. Am. Acad. 6. 197; Hall's Pl. Texas, 7. Watson, King's Rep. 5. 436. Young, Fl. Texas, 228.

A. Robbinsii. Gray, Manual, 2 ed. 98; Proc. Am. Acad. 6. 204. Watson, King's Rep. 5. 438.

Phaca Robbinsii. Oakes, Hovey's Mag. 7. 179. Gray, Manual, 1 ed. 103. Walp. Ann. 3. 849.

Var. **occidentalis.** Watson, King's Rep. 5. 70. Brandegee, Fl. S. W. Col. 235.

A. sclerocarpus. Gray, Proc. Am. Acad. 6. 225. Watson, King's Rep. 5. 444. Torrey, Bot. Wilkes, 276.

Phaca podocarpa. Hook. Fl. Bor.-Am. 1. 142. Don, Mill. 2. 470. Torr. & Gray, Fl. 1. 347 & 694. Eat. & Wr. 350. Walp. Rep. 1. 688. Dietr. 4. 1064.

A. scopulorum. Porter, Fl. Col. 24.

A. sericoleucus. Gray, Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 232. Watson, King's Rep. 5. 445. Porter, Fl. Col. 30.

Phaca sericea. Nutt.; Torr. & Gray, Fl. 1. 343. Eat. & Wr. 350. Walp. Rep. 1. 689. Dietr. 4. 1065. Hook. in Lond. Journ. Bot. 6. 213.

A. serotinus. Gray, Pac. R. Rep. 12. 18 & 51, **t. 5**; Proc. Am. Acad. 6. 229. Watson, King's Rep. 5. 445. Torrey, Bot. Wilkes, 278.

A. sesquiflorus. Watson, Proc. Am. Acad. 10. 346.

A. Shortianus. Nutt.; Torr. & Gray, Fl. 1. 331. Eat. & Wr. 149. Walp. Rep. 1. 700. Dietr. 4. 1080. Gray, Proc. Am. Acad. 6. 210, excl. var. Watson, King's Rep. 5. 440; Am. Naturalist, 9. 270. Porter, Hayd. Rep. 1871, 481; Fl. Col. 27. Rothr. Pl. Wheeler, 36.

A. humilis. Geyer; Hook. in Lond. Journ. Bot. 6. 211. Gray, Pl. Fendl. 35; Pl. Wright. 1. 52. Walp. Ann. 1. 236.

A. cyaneus. Gray, Proc. Acad. Philad. 1863, 60.

A. simplicifolius. Gray, Proc. Am. Acad. 6. 231. Watson, King's Rep. 77 & 445, **t. 12, f. 3–9.** Porter, Fl. Col. 29.

Phaca simplicifolia. Nutt.; Torr. & Gray, Fl. 1. 350. Eat. & Wr. 350. Walp. Rep. 1. 689. Dietr. 4. 1065. Hook. in Lond. Journ. Bot. 6. 215.

A. Sonoræ. Gray, Pl. Wright. 2. 44; Proc. Am. Acad. 6. 223. Walp. Ann. 4. 524. Watson, King's Rep. 5. 443. Parry, Am. Naturalist, 9. 270.

A. Spaldingii. Gray, Proc. Am. Acad. 6. 524. Watson, King's Rep. 5. 435.

A. chætodon. Torrey; Gray, Proc. Am. Acad. 6. 194. Torrey, Bot. Wilkes, 275.

A. sparsiflorus. Gray, Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 205. Watson, King's Rep. 5. 439. Porter, Fl. Col. 26.

Var. **majusculus.** Gray, ll. cc.

A. speirocarpus. Gray, Proc. Am. Acad. 225; Bot. Calif. 1. 152. Watson, King's Rep. 5. 74 & 444.

Var. **falciformis.** Gray, Bot. Calif. 1. 152.

A. stenophyllus. Torr. & Gray, Fl. 1. 329. Walp. Rep. 1. 698. Dietr. 4. 1079. Gray, Proc. Am. Acad. 6. 226. Watson, King's Rep. 5. 444.

A. leptophyllus. Nutt. in Journ. Acad. Philad. 7. 18. Eat. & Wr. 138.

A. subcompressus. Gray in Brandegee, Fl. S. W. Col. 234.

A. succumbens. Dougl.; Hook. Fl. Bor.-Am. 1. 151. Don, Mill. 2. 263. Torr. & Gray, Fl. 1. 332. Eat. & Wr. 138. Walp. Rep. 1. 700. Dietr. 4. 1080. Gray, Ives's Rep. 10; Proc. Am. Acad. 6. 200. Watson, King's Rep. 5. 437. Torrey, Bot. Wilkes, 276.

? *A. dorycnioides.* Dougl.; Don, Mill. 2. 258. Walp. Rep. 2. 866. Dietr. 4. 1081.

A. tegetarius. Watson, King's Rep. 5. 76 & 444, **t. 13.** Coulter, Hayd. Rep. 1872, 764. Porter, Fl. Col. Appx. Rothr. Pl. Wheeler, 36.

Var. **implexus.** W. M. Canby in Porter, l. c.

A. tener. Gray, Proc. Am. Acad. 6. 206 & 525; Bot. Calif. 1. 146. Boland. Cat. 10. Watson, King's Rep. 5. 437.

Phaca astragalina, var. *β.* Hook. & Arn. Bot. Beechey, 334. Torr. & Gray, Fl. 1. 694.

A. hypoglottis, var. *strigosa.* Kellogg, Proc. Calif. Acad. 2. 115, **fig. 37.**

A. tephrodes. Gray, Pl. Wright. 2. 45; Pl. Thurb. 300; Proc. Am. Acad. 6. 222. Walp. Ann. 4. 525. Torrey, Mex. Bound. 56. Watson, King's Rep. 5. 443.

A. Thompsonæ. Watson, Proc. Am. Acad. 10. 345. Gray, Bot. Calif. 1. 151.

A. Thurberi. Gray, Pl. Thurb. 312; Proc. Am. Acad. 6. 220. Walp. Ann. 4. 525. Torrey, Mex. Bound. 56. Watson, King's Rep. 5. 442.

A. trichopodus. Gray, Proc. Am. Acad. 6. 218; Bot. Calif. 1. 149. Boland. Cat. 10. Watson, King's Rep. 5. 442.

Phaca trichopoda. Nutt.; Torr. & Gray, Fl. 1. 343. Eat. & Wr. 351. Walp. Rep. 1. 685.

A. tridactylicus. Gray, Proc. Am. Acad. 6. 527. Watson, King's Rep. 5. 445. Porter, Fl. Col. 30.

? *Phaca digitata.* Torrey, Frem. Rep. 89.

A. triflorus. Gray, Pl. Wright. 2. 45; Pl. Thurb. 299; Ives's Rep. 10; Proc. Am. Acad. 6. 214. Torrey, Mex. Bound. 66. Watson, King's Rep. 5. 440. Porter, Fl. Col. 27.

Phaca triflora. DC. Astrag. 62, **t. 1**; Prodr. 2. 273.

P. Candolliana. HBK. Nov. Gen. 6. 425, **t. 586.**

A. triphyllus. Pursh, 740. Poir. Suppl. 5. 564. Bradbury, Cat. 338. Gray, Proc. Am. Acad. 6. 232. Watson, King's Rep. 5. 445.

Phaca cæspitosa. Nutt. Genera, 2. 98. James, Cat. 186. DC. Prodr. 2. 274. Spreng. Syst. 3. 292. Hook. Fl. Bor.-Am. 1. 143, **t. 55**; Lond. Journ. Bot. 6. 212. Don, Mill. 2. 248. Torr. & Gray, Fl. 1. 342. Torrey, Nicol. Rep. 149. Dietr. 4. 1065. Engelm. Pl. Upp. Miss. 189.

P. argophylla. Nutt.; Torr. & Gray, Fl. 1. 342. Eat. & Wr. 350. Walp. Rep. 1. 689. Dietr. 4. 1065.

P. triphylla. Eat. & Wr. 351.

A. Utahensis. Torr. & Gray, Pac. R. Rep. 2. 120. Durand, Fl. Utah, 162. Gray, Proc. Am. Acad. 6. 213; Bot. Calif. 1. 151. Walp. Ann. 7. 739. Watson, King's Rep. 5. 72 & 440; Pl. Wheeler, 7. Porter, Hayd. Rep. 1871, 481. Coulter, same, 1872, 764.

Phaca mollissima, var. *Utahensis.* Torrey, Stansb. Rep. 385, **t. 2** (Regensb. Flora, 36. 702). Walp. Ann. 4. 495.

A. vaccarum. Gray, Pl. Wright. 2. 43; Proc. Am. Acad. 6. 199. Walp. Ann. 4. 524. Torrey, Mex. Bound. 56. Watson, King's Rep. 5. 436.

A. ventorum. Gray; Watson in Am. Naturalist, 8. 212.

A. vestitus.

Phaca vestita. Benth. Bot. Sulph. 13. Walp. Rep. 2. 517. (Lower California.)

A. villosus. Michx. Fl. 2. 67. Pursh, 473. Chapman, 98. Gray, Proc. Am. Acad. 6. 208. Wood, Bot. & Fl. 94. Watson, King's Rep. 5. 439.

Phaca villosa. Nutt. Genera, 2. 97. Elliott, 2. 225. DC. Prodr. 2. 274. Spreng. Syst. 3. 292. Don, Mill. 2. 248. Torr. & Gray, Fl. 1. 349 in part. Eat. & Wr. 351. Dietr. 4. 1064.

A. Webberi. Gray, Bot. Calif. 1. 154.

? *Phaca* —— ? Torr. & Gray, Fl. 1. 694, under *P. leucophylla.*

A. Whitneyi. Gray, Proc. Am. Acad. 6. 526; Bot. Calif. 1. 148. Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 441.

A. Wrightii. Gray, Pl. Lindh. 176; Pl. Wright. 1. 51; Proc. Am. Acad. 6. 199; Hall's Pl. Texas, 7. Walp. Ann. 2. 376. Watson, King's Rep. 5. 436.

A. —— ? Torr. & Gray, Pac. R. Rep. 2. 163. Gray, Proc. Am. Acad. 6. 233 & 234 (n. 1 & 4). Brandegee, Fl. S. W. Col. 236.

A. adsurgens; iodanthus.
agrestis; hypoglottis.
arcticus; Oxytropis Uralensis.
argophyllus; glareosus.
Arthu-Schottii; Coulteri.
Canadensis; Mortoni.
carnosus; caryocarpus, Sophora sericea.
Carolinianus; Canadensis.
Catalinensis; didymocarpus.
chætodon; Spaldingii.
crassicarpus; caryocarpus.
Crotalariæ; oocarpus.
cyaneus; Shortianus.
cyrtoides; Gibbsii.
debilis; miser.
deflexus; Oxytropis deflexus.
densifolius; Menziesii.
diaphanus; lentiginosus.
diversifolius; junceus.
dorycnioides; succumbens.
Elliottii; obcordatus.
filifolius; pictus.
Fremontii; lentiginosus, malacus.
galegoides; racemosus.
goniatus; hypoglottis.
gracilis; microlobus.
hians; Oxytropis deflexa.
humilis; Shortianus.
hypoglottis; adsurgens, tener.
ineptus; lentiginosus.
Labradoricus; alpinus.
A. Lamberti; Oxytropis Lamberti.
Laxmanni; adsurgens.
leptophyllus; stenophyllus.
leucophyllus; arrectus.
melanocarpus; Missouriensis.
Mexicanus; Plattensis.
micranthus; Nuttallianus.
multicaulis; pubentissimus.
nigrescens; didymocarpus, multiflorus, Oxytropis nigrescens.
pachycarpus; caryocarpus.
Parryi; malacus.
pauciflorus; alpinus, leptaleus.
pictus; Hookerianus.
retroflexus; Oxytropis deflexa.
Robbinsii; alpinus.
secundus; alpinus.
Shortianus; cyaneus.
Sonoræ; Arizonicus.
spicatus; Mortoni.
striatus; adsurgens.
succulentus; caryocarpus.
succumbens; Parryi.
tenellus; multiflorus.
Tennesseensis; Plattensis.
trichocalyx; Mexicanus.
trichocarpus; Nuttallianus.
tristis; Mortoni.
Uralensis; Oxytropis Uralensis.
vaginatus; Hallii.
—— ?; Hallii, leptaleus, mollissimus.

BAPTISIA alba. R. Br. in Ait. f. Hort. Kew. 3. 6. Elliott, 1. 468. DC. Prodr. 2. 100. Spreng. Syst. 2. 348. Don, Mill. 2. 114. Spach, Hist. Veg. 1. 166. Hook. Comp. Bot. Mag. 1. 21. Torr. & Gray, Fl. 1. 386. Eat. & Wr. 154. Dietr. 2. 1500. Chapman, 112. Gray, Manual, 143.

Crotalaria alba. Linn. Spec. 716.

Sophora alba. Linn. Syst. 12 ed. 2. 287; Mant. 2. 440. Hill, Veg. Syst. 22, **t. 54, f. 5.** Reich. Syst. 2. 242. Walter, 134. Ait. Hort. Kew. 2. 45.

Podalyria alba. Willd. Spec. 2. 503. Michx. Fl. 1. 264. Poir. Dict. 5. 441. Persoon, 1. 453. Pursh, 308.

B. australis. R. Br. in Ait. f. Hort. Kew. 3. 6. Elliott, 1. 468. DC. Prodr. 2. 100. Spreng. Syst. 2. 347. Torrey, Ann. Lyc. N. Y. 2. 174; Fl. N. Y. 1. 188; Marcy's Rep. 284. Don, Mill. 2. 113. Spach, Hist. Veg. 1. 166. Hook. Comp. Bot. Mag. 1. 21. Maund, Bot. Gard. 12, **t. 567.** Torr. & Gray, Fl. 1. 385. Dietr. 2. 1500. Engelm. in Wisl. Rep. 3. Chapman, 112. Gray, Manual, 143.

Sophora australis. Linn. Syst. 12 ed. 2. 287; Mant. 2. 378. Ait. Hort. Kew. 2. 45. Sims, Bot. Mag. **t. 509.**

Sophora alba, var. Murr. Comm. Gött. 1. 96, **t. 6.** Reich. Syst. 4. 652.

Sophora cærulea. Trew, Pl. Rar. 6, **t. 14.**

Podalyria australis. Willd. Spec. 2. 503. Vent. Hort. Cels, **t. 56.** Poir. Dict. 5. 441. Persoon, 1. 453.

Podalyria cærulea. Michx. Fl. 1. 264. Pursh, 307.

Baptisia exaltata. Sweet, Brit. Fl. Gard. **t. 97.** Don, Mill. 2. 113. Dietr. 2. 1500. Walp. Rep. 1. 564.

? *B. versicolor.* Lodd. Bot. Cab. **t. 1144.**

? *B. confusa.* Sweet; Don, Mill. 2. 113. Dietr. 2. 1500. Walp. Rep. 1. 564.

B. cærulea. Eat. & Wr. 154.

B. Texana. Buckley, Proc. Acad. Phil. 1861, 452; fide Gray, same, 1862, 163.

Var. **minor.** Torr. & Gray, Fl. 1. 385. Walp. Rep. 1. 563.

B. minor. Lehm. Ind. Sem. Hamb. 1827, 16; Pug. Pl. 1. 8 (Act. Acad. Leop. 14. 803). Don, Mill. 2. 113 & 468. Dietr. 2. 1500.

B. lanceolata. Elliott, 1. 467. DC. Prodr. 2. 100. Don, Mill. 2. 113. Torr. & Gray, Fl. 1. 384. Eat. & Wr. 154. Dietr. 2. 1499. Walp. Rep. 1. 563. Chapman, 111. Wood, Bot. & Fl. 84.

Sophora lanceolata. Walter, 135.

Podalyria uniflora. Michx. Fl. 1. 263. Persoon, 1. 453. Pursh, 307. Poir. Suppl. 4. 442.

Podalyria lanceolata. Poir. Dict. 5. 445.

B. uniflora. Spreng. Syst. 2. 347. Hook. Comp. Bot. Mag. 1. 21.

B. Lecontei. Torr. & Gray, Fl. 1. 386. Walp. Rep. 1. 563. Chapman, 111. Wood, Bot. & Fl. 85.

B. leucantha. Torr. & Gray, Fl. 1. 385; Pac. R. Rep. 2. 126. Walp. Rep. 1. 563. Torrey, Frem. Rep. 89; Emory's Rep. 408. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 190. Chapman, 112. Gray, Manual, 143.

Podalyria alba. Sims, Bot. Mag. **t. 1177.** James, Long's Exped. 1. 63.

Baptisia alba. Hook. Fl. Bor.-Am. 1. 129.

B. leucophæa. Nutt. Genera, 1. 282, & Add. James, Cat. 181. DC. Prodr. 2. 100. Spreng. Syst. 2. 348. Torrey, Ann. Lyc. N. Y. 2. 174; Marcy's Rep. 284. Don, Mill. 2. 113. Hook. Comp. Bot. Mag. 1. 21. Torr. & Gray, Fl. 1. 385. Eat. & Wr. 154. Dietr. 2. 1500. Scheele, Roem. Texas, 428. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 190. Chapman, 112. Gray, Manual, 143. Hook. f. Bot. Mag. t. 5900.

Podalyria bracteata. Muhl. Cat. 2 ed. 42.

B. bracteata. Elliott, 1. 469. Spreng. Neue Entdeck. 2. 196; Syst. 2. 348. DC. Prodr. 2. 100. Don, Mill. 2. 113. Eat. & Wr. 154. Dietr. 2. 1500.

Var. **lævicaulis.** Gray, Hall's Pl. Texas, 7.

B. megacarpa. Chapman; Torr. & Gray, Fl. 1. 386. Walp. Rep. 1. 563. Chapman, 111. Wood, Bot. & Fl. 85.

B. microphylla. Nutt. in Journ. Acad. Philad. 7. 97. Torr. & Gray, Fl. 1. 383. Eat. & Wr. 154. Walp. Rep. 1. 563. Chapman, 111. Wood, Bot. & Fl. 84.

B. stipulacea. Ravenel, Proc. Ell. Soc. 1856, **t. 2**; Torrey, Bulletin, 6. 81. Chapman, 111.

B. perfoliata. R. Br. in Ait. f. Hort. Kew. 3. 5. Elliott. 1. 467. DC. Prodr. 2. 100. Lodd. Bot. Cab. **t. 1104.** Spreng. Syst. 2. 347. Hook. Bot. Mag. **t. 3121.** Don, Mill. 2. 113. Spach, Hist. Veg. 1. 167. Torr. & Gray, Fl. 1. 383. Eat. & Wr. 154. Dietr. 2. 1499. Chapman, 110. Wood, Bot. & Fl. 84. Ravenel & Gray, Am. Journ. Sci. 3. 2. 462 (Trim. Journ. Bot. 10. 84).

Crotolaria perfoliata. Linn. Spec. 714. Hill, Veg. Syst. 21, **t. 9, f. 2.** Lam. Dict. 2. 194. Ait. Hort. Kew. 3. 18. Nouv. Duham. 4. 192. Persoon, 2. 283.

? *Lathyrus Americanus.* Mill. Dict.; DC. Prodr. 2. 376. Don, Mill. 2. 337. Dietr. 4. 1119.

Sophora perfoliata. Walter, 135.

Rafnia perfoliata. Willd. Spec. 3. 949.

Podalyria perfoliata. Michx. Fl. 1. 263. Poir. Suppl. 4. 442. Persoon, 1. 453. Pursh, 307.

B. Serenæ. Curtis, Am. Journ. Sci. 2. 7. 406 (Bot. Zeit. 8. 530). Walp. Ann. 2. 307. Chapman, 112. Wood, Bot. & Fl. 85. Ravenel in Torrey Bulletin, 6. 81.

B. simplicifolia. Croom, Am. Journ. Sci. 1. 25. 74 & 28. 167. Nutt. in Journ. Acad. Philad. 7. 96. Torr. & Gray, Fl. 1. 383. Eat. & Wr. 154. Walp. Rep. 1. 563. Chapman, 110. Wood, Bot. & Fl. 84.

B. sphærocarpa. Nutt. in Journ. Acad. Philad. 7. 97. Torr. & Gray, Fl. 1. 384. Eat. & Wr. 154. Walp. Rep. 1. 563. Scheele, Roem. Texas, 428. Gray, Hall's Pl. Texas, 7. Young, Fl. Texas, 241.

B. tinctoria. R. Br. in Ait. f. Hort. Kew. 3. 6. Nutt. Genera, 1. 282. Barton, Fl. N. Am. 1, **t. 29.** Elliott, 1. 467. Lodd. Bot. Cab. **t. 588.** Torrey, Fl. U. S. 441; Fl. N. Y. 1. 187. DC. Prodr. 2. 100. Spreng. Syst. 2. 348. Raf. Med. Bot. 1. 79, **f. 14.** Hook. Fl. Bor.-Am. 1. 129. Don, Mill. 2. 114. Beck, Bot. 77. Spach, Hist. Veg. 1. 166. Lindl. Fl. Med. 238. Darling. Fl. Cestr. 404. Torr. & Gray, Fl. 1. 386. Eat. & Wr. 154. Dietr. 2. 1500. Chapman, 111. Gray, Manual, 143.

Sophora tinctoria. Linn. Spec. 373. Hill, Veg. Syst. 22, **t. 54, f. 3.** Walter, 134. Ait. Hort. Kew. 2. 45.

Podalyria tinctoria. Lam. Ill. 2. 471, **t. 327, f. 1.** Willd. Spec. 2. 503. Michx. Fl. 1. 265. Poir. Dict. 5. 442. Persoon, 1. 453. Sims, Bot. Mag. **t. 1099.** Pursh, 308. Bigel. Fl. Bost. 170. Elliott, 1. 467.

B. villosa. Nutt. Genera, 1. 281. Elliott, 1. 468. DC. Prodr. 2. 100. Spreng. Syst. 2. 348. Don, Mill. 2. 114. Torr. & Gray, Fl. 1. 384. Eat. & Wr. 154. Dietr. 2. 1500. Chapman, 111. Gray, Manual, 680. Wood, Bot. & Fl. 84.

Sophora villosa. Walter, 134.

Podalyria villosa. Michx. Fl. 1. 264. Poir. Dict. 5. 445; Suppl. 4. 442. Persoon, 1. 453. Pursh, 307.

B. alba; leucantha.
bracteata; leucophæa.
cærulea, confusa & *exaltata;* australis.
fraxinifolia; Thermopsis fraxinifolia.
minor; australis.
B. mollis; Thermopsis mollis & fraxinifolia.
stipulacea; microphylla.
Texana; australis.
uniflora; lanceolata.
versicolor; australis.

BAUHINIA lunarioides. Gray in herb. ined.

Casparea, n. sp. Torrey, Mex. Bound. 59.

CÆSALPINIA Bonduc. Benth. & Hook. Genera, 1. 566.

Guilandina Bonduc, Linn. Torr. & Gray, Fl. 1. 397.

G. Bonducella, Linn. Griseb. Fl. Brit. W. Ind. 204.

C. Mexicana. Gray, Proc. Am. Acad. 5. 157. (Northern Mexico.)

C. PULCHERRIMA, Swartz. Torr. & Gray, Fl. 1. 397. Torrey, Mex. Bound. 60. Seem. Bot. Herald, 281.

CALLIANDRA Californica. Benth. Bot. Sulph. 14, **t. 11**; Lond. Journ. Bot. 3. 105; Rev. Mim. in Trans. Linn. Soc. 30. 552. Gray, Proc. Am. Acad. 5. 157. (Lower California.)

C. conferta. Benth. in Gray, Pl. Wright. 1. 63; Rev. Mim. 546. Gray, Pl. Wright. 2. 53. Walp. Ann. 4. 634.

C. eriophylla. Benth. in Lond. Journ. Bot. 3. 105; Rev. Mim. 552.

C. Chamædrys. Engelm. in Gray, Pl. Fendl. 39. Walp. Ann. 2. 458. Gray, Pl. Wright. 1. 63 & 2. 52. Torrey, Mex. Bound. 61.

C. humilis. Benth. in Lond. Journ. Bot. 5. 103; Rev. Mim. 552; Seem. Bot. Herald, 282. Gray, Pl. Wright. 2. 53. Torrey, Pac. R. Rep. 4. 82; Mex. Bound. 61.

Acacia humilis. Schlecht. in Linnæa, 12. 567.

C. herbacea. Engelm. in Gray, Pl. Fendl. 39. Walp. Ann. 2. 458. Gray, Pl. Wright. 1. 63. Torrey, Mex. Bound. 61.

C. Portoricensis. Benth. l. c. 3. 99, & Rev. Mim. 543, with syn.

Var. ——. Torrey, Mex. Bound. 61. (Sonora.)

C. reticulata. Gray, Pl. Wright. 2. 53. Walp. Ann. 4. 634. Torrey, Mex. Bound. 61. Benth. Rev. Mim. 550.

CANAVALIA obtusifolia. DC. Prodr. 2. 404, with syn. Benth. in Mart. Fl. Bras. 15[1]. 178, **t. 48**, with syn. Chapman, 109.

CASSIA armata. Watson, Proc. Am. Acad. 11. 136. Brew. & Wats. Bot. Calif. 1. 161.

C. Bahamensis. Mill. Dict. n. 9. Benth. Rev. Cass. in Trans. Linn. Soc. 27. 541. Gray, Am. Journ. Sci. 3. 3. 377.

C. angustisiliqua. Torr. & Gray, Fl. 1. 396, not Lam. Chapman, 114.

C. bauhinioides. Gray, Pl. Lindh. 180; Pl. Wright. 1. 59 & 2. 80; Am. Journ. Sci. 3. 3. 377. Walp. Ann. 2. 444. Torr. & Gray, Pac. R. Rep. 2. 163. Torrey, Mex. Bound. 59. Benth. Rev. Cass. 520.

C. biflora. Linn. Spec. 378. See syn. in Benth. Rev. Cass. 543. — Torr. & Gray, Fl. 1. 395. Chapman, 114. Griseb. Fl. Brit. W. Ind. 208. Gray, Am. Journ. Sci. 3. 3. 378.

C. calycioides. DC.; Collodon, Hist. Cass. 125, **t. 20, B.** DC. Prodr. 2. 503. Benth. in Mart. Fl. Bras. 15[1]. 160, **t. 43, f. 2**; Rev. Cass. 569. Gray, Am. Journ. Sci. 3. 3. 378.

C. Chamæcrista. Linn. Spec. 379. Lam. Dict. 1. 650. Walter, 136. Ait. Hort. Kew. 2. 53. Sims, Bot. Mag. **t. 107.** Willd. Spec. 2. 528. Michx. Fl. 1. 262. Persoon, 1. 459. Smith in Abbot's Insects, **t. 94.** Pursh, 306. Bigel. Fl. Bost. 171. Collod. Hist. Cass. 129, with syn. Elliott, 1. 473. Torrey, Fl. U. S. 439; Ann. Lyc. N. Y. 2. 194; Fl. N. Y. 1. 190; Frem. Rep. 89; Emory's Rep. 139 & 158; Marcy's Rep. 285; Mex. Bound. 59. DC. Prodr. 2. 503. Vogel, Syn. Cass. 62. Don, Mill. 2. 447. Beck, Bot. 94. Hook. Comp. Bot. Mag. 1. 24. Darling. Fl. Cestr. 433. Torr. & Gray, Fl. 1. 395. Eat. & Wr. 184. Dietr. 2. 1489. Walp. Rep. 1. 835. Gray, Pl. Fendl. 38; Manual, 144; Am. Journ. Sci. 3. 3. 378. Bertol. Bot. Misc. 11. 19. Richard. Arct. Exped. 424. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 190. Chapman, 115. Benth. Rev. Cass. 576; Mart. Fl. Bras. 15[1]. 172, with syn. Porter, Fl. Col. 33.

C. pulchella. Salisb. Prodr. 326.

C. fasciculata. Michx. Fl. 1. 262. Persoon, 1. 459. Poir. Dict. 2. 129. Pursh, 306. Collod. Hist. Cass. 129. Elliott, 1. 473. Torrey, Fl. U. S. 440. DC. Prodr.

2. 502. Spreng. Syst. 2. 341. Don, Mill. 2. 447. Beck, Bot. 94. Eat. & Wr. 184. Dietr. 2. 1488.

Xamacrista triflora. Raf. Sylv. Tellur. 127.

Var. **cinerea.** Torr. & Gray, Fl. 1. 396, excl. syn. Engelm. & Gray, Pl. Lindh. 34.

C. Covesii. Gray, Proc. Am. Acad. 7. 399; Am. Journ. Sci. 3. 3. 377. Watson, Pl. Wheeler, 8. Brew. & Wats. Bot. Calif. 1. 161.

C. grammica. Spreng. Neue Entdeck. 3. 55. Benth. Rev. Cass. 572. Gray, Am. Journ. Sci. 3. 3. 378.

C. lineata, var. *brachyloba.* Griseb. Mem. Am. Acad. 8. 179.

C. Greggii. Gray, Pl. Wright. 1. 59; Am. Journ. Sci. 3. 3. 378. Walp. Ann. 4. 599. Benth. Rev. Cass. 575.

C. leptocarpa. Benth. in Linnæa, 22. 528; Mart. Fl. Bras. 15[1]. 112; Rev. Cass. 531. Walp. Ann. 4. 599. Gray, Am. Journ. Sci. 3. 3. 377.

Lindheimeriana. Scheele in Linnæa, 21. 457. Gray, Pl. Lindh. 179; Pl. Wright. 1. 59; Am. Journ. Sci. 3. 3. 377. Walp. Ann. 2. 443. Torrey, Pac. R. Rep. 7. 10; Mex. Bound. 59. Benth. Rev. Cass. 530.

C. Marylandica. Linn. Spec. 378. Medicus, Bot. Beobacht. 1782, 338. Lam. Dict. 1. 648. Walter, 135. Ait. Hort. Kew. 2. 53. Willd. Spec. 2. 524. Michx. Fl. 1. 261. Barton, Bot. Appx. 27, **t. 17**. Persoon, 1. 458. Schkuhr, Handb. 1. 355, **t. 113**. Pursh, 306. Collad. Hist. Cass. 111. Barton f. Mat. Med. **t. 12**. Nutt. Genera, 1. 280. Bigel. Med. Bot. 2. 166, **t. 39**; Fl. Bost. 2 ed. 171. Elliott, 1. 473. Torrey, Fl. U. S. 1. 439; Fl. N. Y. 1. 189. DC. Prodr. 2. 498. Spreng. Syst. 2. 337. Raf. Bot. Med. 1. 93, **f. 18**. Don, Mill. 2. 443. Beck, Bot. 94. Spach, Hist. Veg. 1. 115. Vogel, Syn. Cass. 32. Darling. Fl. Cestr. 439. Lindl. Fl. Med. 261. Torr. & Gray, Fl. 1. 395. Eat. & Wr. 183. Dietr. 2. 1485. Walp. Rep. 1. 821. Gray, Pl. Fendl. 38; Manual, 144; Am. Journ. Sci. 3. 3. 377. Chapman, 114. Lesqx. Fl. Ark. 358. Benth. Rev. Cass. 534.

C. ligustrina, Linn. Spec. 378, in part (syn. *Gron.*). Pursh, 306. Elliott, 1. 472. Eat. & Wr. 184. Excluded by Torr. & Gray, Fl. 1. 396, and Gray, l. c.

C. acuminata. Moench, Meth. 273.

C. reflexa. Salisb. Prodr. 326.

C. nictitans. Linn. Spec. 380. Lam. Dict. 1. 651. Roth, Beyt. Bot. 1. 90; Catal. Bot. 2. 42; Neue Beyt. Bot. 1. 201. Koen. & Sims, Ann. Bot. 2. 30. Walter, 135. Willd. Spec. 2. 529. Michx. Fl. 1. 262. Persoon, 1. 459. Pursh, 307. Collad. Hist. Cass. 128. Elliott, 1. 474. James, Long's Exped. 3. 19. Torrey, Fl. U. S. 440; Fl. N. Y. 1. 190; Mex. Bound. 59. DC. Prodr. 2. 503. Spreng. Syst. 2. 342. Don, Mill. 2. 447. Beck, Bot. 94. Hook. Comp. Bot. Mag. 1. 24. Vogel, Syn. Cass. 62. Darling. Fl. Cestr. 432. Torr. & Gray, Fl. 1. 396. Bigel. Fl. Bost. 3 ed. 181. Eat. & Wr. 184. Dietr. 2. 1489. Walp. Rep. 1. 834. Gray, Pl. Wright. 1. 59; Manual, 144; Am. Journ. Sci. 3. 3. 378. Griseb. Fl. Brit. W. Ind. 211. Chapman, 115. Benth. Rev. Cass. 578.

C. procumbens. Linn. Spec. 380, excl. hab.; not herb. Lam. Dict. 1. 651. Willd. Spec. 2. 530. Roth, Catal. Bot. 2. 42; Neue Beyt. Bot. 1. 201. Pursh, 307. DC. Prodr. 2. 504. Spreng. Syst. 2. 343. Colla, Hort. Ripul. Appx. 4. 40. Eat. & Wr. 184. Dietr. 2. 1490.

Grimaldia assurgens & decumbens. Schrank, Denkschr. Münch. Akad. 1808, 110 & 111, **t. 4, 5**.

C. diffusa. DC. in Mem. Soc. Gen. 2. 130; Prodr. 2. 504.

C. smaragdina. Macfad. Fl. Jam. 1. 347.

Nictitella amœna. Raf. Sylv. Tellur. 128.

Var. **aspera.** Torr. & Gray, Fl. 1. 396. Chapman, 115.

C. aspera. Muhl. Cat. 42. Elliott, 1. 474. Spreng. Neue Entdeck. 2. 196; Syst. 2. 342. Don, Mill. 2. 449. Vogel, Syn. Cass. 67. Eat. & Wr. 184. Dietr. 2. 1490. Walp. Rep. 1. 837.

C. occidentalis. Linn. Spec. 377. See syn. in Collad. Hist. Cass. 107; Vogel, Syn. Cass. 21, & Linnæa, 15. 68; Benth. Rev. Cass. 532. — Michx. Fl. 1. 261. Pursh, 305. Ker, Bot. Reg. **t. 83.** Elliott, 1. 471. Torrey, Ann. Lyc. N. Y. 2. 194. Audubon, Birds, **t. 35.** Torr. & Gray, Fl. 1. 394. Eat. & Wr. 184. Walp. Rep. 1. 816. Chapman, 114. Gray, Manual, 144; Am. Journ. Sci. 3. 3. 377; Hall's Pl. Texas, 7.

C. Caroliniana. Walter, 135.

C. linearis. Michx. Fl. 1. 261. Persoon, 1. 457. Poir. Suppl. 2. 126. Pursh, 306. Collad. Hist. Cass. 108. Elliott, 1. 472. DC. Prodr. 2. 497. Spreng. Syst. 2. 338. Don, Mill. 2. 443. Vogel, Syn. Cass. 44. Eat. & Wr. 184. Dietr. 2. 1485. Walp. Rep. 1. 826.

C. ciliata. Raf. Fl. Lud. 100.

Ditremexa Caroliniana & fœtida. Raf. Sylv. Tellur. 127.

C. procumbens. Linn. herb.; Spec. 2 ed. 543, in part. Benth. Rev. Cass. 578. Gray, Am. Journ. Sci. 3. 3. 378.

C. pygmæa. DC. in Mem. Soc. Gen. 2. 130; Prodr. 2. 502.

C. chamæcristoides. Collad. Hist. Cass. 134. Torrey, Mex. Bound. 59.

C. Texana. Buckley, Proc. Acad. Phil. 1861, 452; fide Gray, same, 1862, 163.

C. pumilio. Gray, Pl. Lindh. 180; Pl. Wright. 1. 59 & 2. 50; Am. Journ. Sci. 3. 3. 377. Walp. Ann. 2. 444. Torr. & Gray, Pac. R. Rep. 2. 163. Torrey, Mex. Bound. 59. Benth. Rev. Cass. 529.

C. Rœmeriana. Scheele, Linnæa, 21. 457. Gray, Pl. Lindh. 180; Pl. Wright. 1. 59 & 2. 50; Am. Journ. Sci. 3. 3. 377; Hall's Pl. Texas, 7. Walp. Ann. 2. 443. Torr. & Gray, Pac. R. Rep. 2. 163. Torrey, same, 4. 82; Mex. Bound. 59. Benth. Rev. Cass. 529.

C. Tora. Linn. Spec. 376. See syn. in Collad. Hist. Cass. 96; Benth. Rev. Cass. 535. — Walter, 135. Pursh, 305. Elliott, 1. 471. Hook. Comp. Bot. Mag. 1. 24. Eat. & Wr. 184. Gray, Am. Journ. Sci. 3. 3. 377.

C. obtusifolia. Linn. Spec. 377. Collad. Hist. Cass. 95, with syn. DC. Prodr. 2. 495. Vogel, Syn. Cass. 24. Torr. & Gray, Fl. 1. 394. Griseb. Fl. Brit. W. Ind. 209. Torrey, Mex. Bound. 59. Chapman, 114. Smith, Proc. Acad. Philad. 1867, 19. Gray, Manual, 144; Hall's Pl. Texas, 7.

C. humilis. Collad. Hist. Cass. 96, with syn. DC. Prodr. 2. 495. Don, Mill. 2. 439. Bertol. Bot. Misc. 11. 18.

C. toroides. Raf. Med. Bot. 1. 96. *Diallobus falcatus.* Raf. Sylv. Tellur. 128.

C. Wislizeni. Gray, Pl. Wright. 1. 60 & 2. 50; Am. Journ. Sci. 3. 3. 378. Walp. Ann. 4. 599. Torrey, Mex. Bound. 59. Benth. Rev. Cass. 547.

C. Wrightii. Gray, Pl. Wright. 2. 50; Am. Journ. Sci. 3. 3. 378. Walp. Ann. 4. 599. Torrey, Mex. Bound. 59. Benth. Rev. Cass. 571.

CENTROSEMA Plumieri, Benth. Torr. & Gray, Fl. 1. 290. Eat. & Wr. 188.

Clitoria Plumieri, Turp. Nutt. Genera, 2. 18.

Vexillaria Plumiera. Eat. & Wr. 473.

C. Virginianum. Benth. in Ann. Mus. Vind. 2. 120. See syn. in Benth., Mart. Fl. Bras. 15[1]. 132; Griseb. Fl. Brit. W. Ind. 193. — Hook. Comp. Bot. Mag. 1. 22. Torr. & Gray, Fl. 1. 290. Eat. & Wr. 187. Dietr. 4. 1170. Torrey, Mex. Bound. 50. Chapman, 107. Gray, Manual, 141; Hall's Pl. Texas, 7.

Clitoria Virginiana. Linn. Spec. 753. Hill, Veg. Syst. 22, t. **9**, f. **1**. Lam. Dict. 2. 51. Walter, 186. Ait. Hort. Kew. 3. 36. Swartz, Obs. Bot. 282. Willd. Spec. 3. 1069. Michx. Fl. 2. 62. Persoon, 2. 302. Pursh, 487. Elliott, 2. 240. DC. Prodr. 2. 234. Spreng. Syst. 3. 256. Torrey, Ann. Lyc. N. Y. 2. 176; Compend. 271. Lindl. Bot. Reg. 13, t. **1047**. Don, Mill. 2. 215. Beck, Bot. 81. Spach, Hist. Veg. 1. 243.

Clitoria calcarigera. Salisb. Parad. Lond. t. **51**.

Bradburia scandens & ? *erecta.* Raf. Fl. Lud. 104. Poir. in Lam. Ill. 3. 677. Spreng. Syst. 3. 255.

Vexillaria Virginiana. Eaton, Manual, 1 ed. 83. James, Long's Exped. 3. 33. Eat. & Wr. 473.

Clitoria Alabamensis. Bertol. Bot. Misc. 9. 12, t. **5** (Bot. Zeit. 9. 902); fide Gray, Am. Journ. Sci. 2. 14. 115.

Var. **angustifolium.** Griseb. Fl. Brit. W. Ind. 193.

CERCIS Canadensis. Linn. Spec. 374. DuRoi, Obs. Bot. 10. Marshall, Arbust. 32. Lam. Dict. 2. 586. Walter, 135. Ait. Hort. Kew. 2. 47. Willd. Spec. 2. 508. Nouv. Duham. 1. 19. Michx. Fl. 1. 265. Persoon, 1. 454. Pursh, 308. Elliott, 1. 470. James, Long's Exped. 1. 317 & 3. 4. Torrey, Fl. U. S. 441; Ann. Lyc. N. Y. 2. 194; Fl. N. Y. 1. 188; Nicol. Rep. 149; Emory's Rep. 408. DC. Prodr. 2. 518. Spreng. Syst. 2. 346. Guimp. Otto & Hayne, t. **92**. Hook. Fl. Bor.-Am. 1. 167; Comp. Bot. Mag. 1. 24. Don, Mill. 2. 463. Beck, Bot. 94. Spach, Hist. Veg. 1. 129. Darling. Fl. Cestr. 435. Torr. & Gray, Fl. 1. 392. Eat. & Wr. 190. Dietr. 2. 1515. Loud. Arbor. 2. 659, t. **101, 103**. Gray, Pl. Fendl. 38; Manual, 144. Richard. Arct. Exped. 424. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 190. Curtis, Bot. N. Car. 50. Lesqx. Fl. Ark. 357. Chapman, 114. Baillon, Hist. Pl. 2. 121.

Siliquastrum cordatum. Moench, Meth. 54.

C. occidentalis, Torrey; Gray, Pl. Lindh. 177, excl. var. Walp. Ann. 2. 440. Torr. & Gray, Pac. R. Rep. 2. 163. Torrey, same, 4. 82; Mex. Bound. 58; Bot. Wilkes, 283, t. **3**. Boland. Cat. 10. Brew. & Wats. Bot. Calif. 1. 160.

C. siliquastrum, var. Benth. Pl. Hartw. 307.

C. Californica. Torrey; Benth. Pl. Hartw. 361.

Var. **Texensis.**

C. occidentalis, var. Gray, Pl. Lindh. 177. Walp. Ann. 2. 440. Brew. & Wats. Bot. Calif. 1. 161.

C. reniformis. Engelm.; Scheele, Roem. Texas, 428.

C. occidentalis. Gray, Hall's Pl. Texas, 7.

CHÆTOCALYX Schottii. Torrey, Mex. Bound. 56, t. **18**. Benth. & Hook. Gen. Pl. 1. 513.

Nissolia Schottii. Gray, Proc. Linn. Soc. 5. 25.

C. Wislizeni. Gray, Pl. Wright. 1. 51 & 2. 45. Walp. Ann. 4. 489. Torrey, Mex. Bound. 56, t. **18**, fig. **5–7**. Benth. & Hook. l. c.

Nissolia Wislizeni. Gray, Proc. Linn. Soc. 5. 26.

CHAPMANIA Floridana. Torr. & Gray, Fl. 1. 355 & 694. Benth. in Trans. Linn. Soc. 18. 155. Eat. & Wr. 191. Dietr. 4. 1131. Chapman, 100. Wood, Bot. & Fl. 87. Gray, Proc. Am. Acad. 11. 103.

CICER ARIETINUM, Linn. Eat. & Wr. 196. Gray, Pl. Fendl. 30; Pl. Wright. 2. 32. Torrey, Stansb. Rep. 385. Durand, Fl. Utah, 161.

CLADRASTIS tinctoria. Raf. Fl. Kent. 1824; Neog. 1825; Med. Fl. 2. 210; New Sylv. 3. 83. Torr. & Gray, Fl. 1. 390. Chapman, 113. Gray, Manual, 143.

Virgilia lutea. Michx. f. Arbr. Amer. 3. 266, **t. 3.** Pursh, 309. Nutt. Genera, 1. 284. Loisel. Herb. Amat. **t. 297.** DC. Prodr. 2. 98. Spreng. Syst. 4. 171. Don, Mill. 2. 112. Spach, Hist. Veg. 1. 163. Eat. & Wr. 480. Dietr. 2. 1501. Loud. Arbor. 2. 565, **t. 78.**

CLITORIA Mariana. Linn. Spec. 753. Hill, Veg. Syst. 22, **t. 9, f. 2.** Lam. Dict. 2. 51. Walter, 186. Willd. Spec. 3. 1070. Michx. Fl. 2. 62. Persoon, 2. 303. Ait. f. Hort. Kew. 4. 301. Pursh, 487. Nutt. Genera, 2. 118. Elliott, 2. 241. DC. Prodr. 2. 234. Spreng. Syst. 3. 256. Torrey, Compend. 271; Fl. N. Y. 1. 163, t. 24; Marcy's Rep. 284. Don, Mill. 2. 215. Beck, Bot. 80. Hook. Comp. Bot. Mag. 1. 22. Torr. & Gray, Fl. 1. 290. Dietr. 4. 1166. Gray, Pl. Lindh. 170; Manual, 141; Hall's Pl. Texas, 7. Benth. Journ. Linn. Soc. 2. 38, with syn. Lesqx. Fl. Ark. 357. Chapman, 107.

C. Mexicana. Link, Enum. 2. 235, fide Benth. l. c. DC. Prodr. 2. 234. Don, Mill. 2. 215. Dietr. 4. 1116. Benth. Pl. Hartw. 60.

Vexillaria Mariana. Eaton, Manual, 1 ed. 83. Eat. & Wr. 473.

COLOGANIA angustifolia. Kunth, Mimos. 209, **t. 58.** DC. Prodr. 2. 237. Dietr. 4. 1166. Benth. Pl. Hartw. 287. Gray, Pl. Wright. 1. 45.

C. longifolia. Gray, Pl. Wright. 2. 35. Walp. Ann. 4. 551. Torrey, Mex. Bound. 51.

C. pulchella. HBK. Nov. Gen. 6. 414. DC. Prodr. 2. 237. Schlecht. in Linnæa, 12. 287. Dietr. 4. 1166. Gray, Pl. Wright. 1. 45 & 2. 34. Torrey, Mex. Bound. 51.

COURSETIA (?) glandulosa. Gray, Proc. Am. Acad. 5. 156. (Lower California.)

CRACCA Edwardsii. Gray, Pl. Wright. 2. 35. Walp. Ann. 4. 481.

C. —— ? Benth. in Videnск. Medd. Kjöbenh. 1853, 9. Walp. Ann. 4. 480.

CROTALARIA lupulina. Raf. Specc. Sci. 1. 159. DC. Prodr. 2. 133. Seem. Bot. Herald, 279. Gray, Pl. Wright. 1. 53 & 2. 49; Proc. Am. Acad. 5. 157. Torrey, Mex. Bound. 57. — Referred to *C. pumila* by Grisebach, Fl. Brit. W. Ind. 179.

C. ovalis. Pursh, 469. Poir. Suppl. 5. 6[illegible] Genera, 2. 94. Elliott, 2. 194. DC. Prodr. 2. 124. Spreng. Syst. 3. 238. Don, Mill. 2. 134. Hook. Comp. Bot. Mag. 1. 21. Torr. & Gray, Fl. 1. 370. Eat. & Wr. 213. A.DC. Not. Pl. Rar. Gen. 8. 22. Dietr. 4. 927. Chapman, 89. Wood, Bot. & Fl. 90. Gray, Hall's Pl. Texas, 7.

Anonymos rotundifolia. Walter, 181.

C. sagittalis, var. *ovalis.* Michx. Fl. 2. 55.

C. rotundifolia. Poir. Suppl. 2. 402. Spreng. Syst. 3. 237.

C. Hookeriana. A. DC. Not. Pl. Rar. Gen. 8. 22.

C. pumila. Orteg. Dec. 2. 23. DC. Prodr. 2. 132. Griseb. Fl. Brit. W. Ind. 179, with syn.

C. Purshii. DC. Prodr. 2. 124. Spreng. Syst. 3. 238. Don, Mill. 2. 134. Torr. & Gray, Fl. 1. 370. Dietr. 4. 927. Chapman, 89. Wood, Bot. & Fl. 90.

C. parviflora. Pursh, 469, not Roth. Elliott, 2. 293. DC. Prodr. 2. 124. Spreng. Syst. 3. 238. Torrey, Compend. 262. Don, Mill. 2. 134. Beck, Bot. 77. Curtis, Journ. Bost. Soc. Nat. Hist. 1. 120. Eat. & Wr. 213.

? *C. lævigata.* Pursh, 469, not Lam. Poir. Suppl. 5. 635. Eat. & Wr. 213.

C. sagittalis. Linn. Spec. 714. Lam. Dict. 2. 195. Ait. Hort. Kew. 3. 18. Michx. Fl. 2. 55. Persoon, 2. 283. Pursh, 469. Elliott, 2. 193. Bigel. Fl. Bost. 267. DC. Prodr. 2. 124. Spreng. Syst. 3. 238. Torrey, Compend. 262; Fl. N. Y. 1. 185; Mex. Bound. 57. Don, Mill. 2. 134. Beck, Bot. 77. Hook. Comp. Bot. Mag. 1. 21. Darling. Fl. Cestr. 404. Schlecht. in Linnæa, 12. 278. Torr. & Gray, Fl. 1. 370. Eat. & Wr. 213. Dietr. 4. 927. Seem. Bot. Herald, 279. Gray, Pl. Wright. 2. 49; Manual, 126; Hall's Pl. Texas, 7. Engelm. Pl. Upp. Miss. 190. Chapman, 89.

C. sagittata. Hill, Veg. Syst. 21, **t. 10, f. 1.**

Anonymos sagittalis. Walter, 181.

C. parviflora. Roth, Catal. 1. 83. Poir. Suppl. 2. 400. Willd. Spec. 3. 973; Enum. 748. Persoon, 2. 283.

C. platycarpa. Link, Enum. 2. 227. DC. Prodr. 2. 124. Don, Mill. 2. 134.

CYTISUS SCOPARIUS, Link. Gray, Manual, 679.

Spartium angulatum. Raf. Prec. Dec. Som. 37; Journ. Bot. 4. 269.

Genista angulata. Poir. Suppl. 5. 688. DC. Prodr. 2. 152. Don, Mill. 2. 154.

DALEA albiflora. Gray, Pl. Wright. 2. 38 & 41. Walp. Ann. 4. 482 & 483. Torrey, Mex. Bound. 52. Brew. & Wats. Bot. Calif. 1. 141.

D. alopecuroides. Willd. Spec. 3. 1336; Enum. 787. Pursh, 474. Nutt. Genera, 2. 101. DC. Prodr. 2. 244. Don, Mill. 2. 223. Hook. Comp. Bot. Mag. 1. 22. Spach, Hist. Veg. 1. 247. Vogel, Linn. 10. 591. Torr. & Gray, Fl. 1. 308. Eat. & Wr. 219. Benth. & Oerst. in Vidensk. Medd. Kjöbenh. 1855, 3. Torrey, Nicol. Rep. 148; Emory's Rep. 138; Pac. R. Rep. 4. 78; Mex. Bound. 52. Dietr. 4. 1014. Gray, Pl. Fendl. 31; Pl. Wright. 1. 47, & 2. 38 & 41 (Walp. Ann. 4. 482); Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 60; Manual, 129. Seem. Bot. Herald, 279. Engelm. Pl. Upp. Miss. 188. Lesqx. Fl. Ark. 355. Chapman, 93. Porter, Fl. Col. 22. Brew. & Wats. Bot. Calif. 1. 141.

Psoralea Dalea. Linn. Spec. 764. Poir. Dict. 5. 691.

Dalea Cliffortiana. Willd. Spec. 3. 1336. Pursh, 474. Elliott, 2. 195.

D. Linnæi. Michx. Fl. 2. 57, **t. 38.** Persoon, 2. 345. Spreng. Syst. 3. 328.

Psoralea alopecuroides. Poir. Dict. 5. 695.

Petalostemon alopecuroides. Persoon, 2. 268. Pursh, 461.

Dalea pedunculata. Pursh, 474. DC. Prodr. 2. 244. Don, Mill. 2. 223.

Psoralea pedunculata. Poir. Suppl. 4. 590.

D. amœna. Watson, Am. Naturalist, 7. 300.

D. arborescens. Torrey; Gray, Pl. Thurb. 316. Walp. Ann. 4. 485. Torrey, Pac. R. Rep. 5. 360. Brew. & Wats. Bot. Calif. 1. 142.

D. argyræa. Gray, Pl. Wright. 1. 47, & 2. 38 & 41. Walp. Ann. 4. 483 & 484. Torrey, Mex. Bound. 52.

D. aurea. Nutt. in Fras. Cat. 1813; Genera, 2. 101. Pursh, 740. Bradbury, Cat. 38. James, Cat. 186. DC. Prodr. 2. 244. Spreng. Syst. 3. 327. Torrey, Ann. Lyc. N. Y. 2. 177; Marcy's Rep. 284; Pac. R. Rep. 4. 78; Mex. Bound. 52. Don, Mill. 2. 213. Spach, Hist. Veg. 1. 246. Torr. & Gray, Fl. 1. 308. Eat. & Wr. 219. Engelm. & Gray, Pl. Lindh. 7 & 31. Dietr. 4. 1014. Gray, Pl. Lindh. 175; Pl. Fendl. 31; Pl. Wright. 1. 46 & 2. 41 (Walp. Ann. 4. 482); Hall's Pl. Texas, 7. Scheele, Roem. Texas, 429. Engelm. Pl. Upp. Miss. 188. Young, Fl. Texas, 222.

Psoralea aurea. Poir. Suppl. 4. 590.

Cylipogon capitatum. Raf. Jour. Phys. 1819, 97.

Petalostemon (?) *capitatum.* DC. Prodr. 2. 244. Don, Mill. 2. 223.

D. Californica. Watson, Proc. Am. Acad. 11. 132. Brew. & Wats. Bot. Calif. 1. 142.

D. brachystachys. Gray, Pl. Wright. 2. 39 & 40. Walp. Ann. 2. 482 & 483. Torrey, Mex. Bound. 52. Brew. & Wats. Bot. Calif. 1. 141.

D. calycosa. Gray, Pl. Wright. 2. 40. Walp. Ann. 4. 482 & 484. Brew. & Wats. Bot. Calif. 1. 142.

D. canescens. Benth. Bot. Sulph. 12. Walp. Rep. 2. 513. (Lower California.)

D. chrysorhiza. Gray, Proc. Am. Acad. 5. 156. (Lower California.)

D. divaricata. Benth. Bot. Sulph. 12. Walp. Rep. 2. 513. (Lower California.)

D. Emoryi. Gray, Pl. Thurb. 315; Ives's Rep. 10. Walp. Ann. 4. 485. Torrey, Pac. R. Rep. 5. 360, **t. 11**; Mex. Bound. 52. Brew. & Wats. Bot. Calif. 1. 142.

D. —— ? Torrey, Emory's Rep. 138.

D. filiformis. Gray, Pl. Wright. 2. 39 & 40. Walp. Ann. 4. 482 & 484. Torrey, Mex. Bound. 52.

D. formosa. Torrey, Ann. Lyc. N. Y. 2. 177; Emory's Rep. 138, **t. 1**; Pac. R. Rep. 4. 78; Mex. Bound. 52. Don, Mill. 2. 224. Torr. & Gray, Fl. 1. 308; Pac. R. Rep. 2. 163. Eat. & Wr. 219. Walp. Rep. 1. 652; Ann. 4. 482. Dietr. 4. 1015. Gray, Pl. Fendl. 32; Pl. Wright. 1. 46, & 2. 37 & 40; Ives's Rep. 10.

D. Fremonti. Torrey; Gray, Pl. Thurb. 316. Walp. Ann. 4. 485. Torrey, Pac. R. Rep. 5. 360. Watson, King's Rep. 5. 65; Pl. Wheeler, 7. Brew. & Wats. Bot. Calif. 1. 143.

D. frutescens. Gray, Pl. Lindh. 175; Pl. Wright. 1. 46, & 2. 37 & 41; Hall's Pl. Texas, 7. Walp. Ann. 2. 360 & 4. 483. Torrey, Mex. Bound. 53.

D. Greggii. Gray, Pl. Thurb. 314. Walp. Ann. 4. 485. Torrey, Mex. Bound. 52.

D. Hallii. Gray, Proc. Am. Acad. 8. 625; Hall's Pl. Texas, 7.

D. Jamesii. Torr. & Gray, Fl. 1. 308. Eat. & Wr. 219. Walp. Rep. 1. 654; Ann. 4. 483. Dietr. 4. 1019. Gray, Pl. Fendl. 32; Pl. Wright. 1. 49, & 2. 40 & 41; Pl. Thurb. 300. Torrey, Pac. R. Rep. 4. 78; Mex. Bound. 52. Porter, Fl. Col. 23.

Psoralea Jamesii. Torrey, Ann. Lyc. N. Y. 2. 175. Don, Mill. 2. 204.

D. Johnsoni. Watson, King's Rep. 5. 64. Parry, Am. Naturalist, 9. 270.

D. Kingii. Watson, King's Rep. 5. 64, **t. 10**. Brew. & Wats. Bot. Calif. 1. 143.

D. lachnostachya. Gray, Pl. Wright. 1. 46, & 2. 37 & 41. Seem. Bot. Herald, 279. Walp. Ann. 4. 483 & 484. Torrey, Mex. Bound. 52.

D. lævigata. Gray, Pl. Wright. 2. 38 & 41, not Don. Walp. Ann. 2. 482 & 484. Torrey, Mex. Bound. 52. Brew. & Wats. Bot. Calif. 1. 141.

D. lanata. Spreng. Syst. 3. 327. Torr. & Gray, Fl. 1. 690. Gray, Pl. Fendl. 31; Pl. Wright. 1. 47, & 2. 37 & 41. Walp. Ann. 4. 483. Engelm. in Wisliz. Rep. 12. Torrey, Marcy's Rep. 271; Pac. R. Rep. 4. 78. Watson, King's Rep. 5. 419. Brandegee, Fl. S. W. Col. 234.

D. ——, n. sp. Torrey, Ann. Lyc. N. Y. 2. 177.

D. lanuginosa. Nutt.; Torr. & Gray, Fl. 1. 307. Eat. & Wr. 219. Walp. Rep. 1. 652. Dietr. 4. 1016.

D. lasiathera. Gray, Pl. Wright. 1. 48, & 2. 37 & 40. Walp. Ann. 4. 482 & 484. Torrey, Mex. Bound. 52.

D. pogonathera. Gray, Pl. Lindh. 175.

D. laxiflora. Pursh, 741. Bradbury, Cat. 338. Nutt. Genera, 2. 101. James, Cat. 186. DC. Prodr. 2. 244. Spreng. Syst. 3. 328. Torrey, Ann. Lyc. N. Y. 2. 177; Emory's Rep. 38 & 408; Marcy's Rep. 284; Pac. R. Rep. 4. 78. Don, Mill. 2. 213. Torr. & Gray, Fl. 1. 307; Pac. R. Rep. 2. 126. Eat. & Wr. 219. Gray, Pl.

Lindh. 175; Pl. Fendl. 31; Pl. Wright. 1. 48 & 2. 40; Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 59. Walp. Ann. 4. 482. Dietr. 4. 1014. Scheele, Roem. Texas, 429. Engelm. Pl. Upp. Miss. 188. Young, Fl. Texas, 222. Porter, Fl. Col. 22.

D. enneandra. Nutt. Fras. Cat. 1813.

Psoralea laxiflora. Poir. Suppl. 4. 590.

Cylipogon virgatum. Raf. Journ. Phys. 1819, 97.

D. penicillata. Moric. Pl. Nouv. 66, **t. 45.** Walp. Rep. 2. 513.

D. leucostachys. Gray, Pl. Fendl. 32; Pl. Wright. 1. 49 & 2. 41. Walp. Ann. 2. 359 & 4. 483. (Chihuahua.)

D. mollis. Benth. Pl. Hartw. 306. Torrey, Pac. R. Rep. 5. 360; Mex. Bound. 52. Walp. Ann. 2. 359 & 4. 483. Gray, Pl. Wright. 1. 47 & 2. 41; Pl. Thurb. 315. Brew. & Wats. Bot. Calif. 1. 141.

D. —— ? Torrey, Emory's Rep. 139.

Var. **Neo-Mexicana.** Gray, Pl. Wright. 1. 47; Ives's Rep. 10.

D. nana. Torrey; Gray, Pl. Fendl. 31; Pl. Lindh. 175; Pl. Wright. 1. 46, & 2. 37 & 41; Pl. Thurb. 300; Hall's Pl. Texas, 7. Walp. Ann. 2. 359 & 4. 483. Torrey, Pac. R. Rep. 4. 78; Mex. Bound. 52. Brew. & Wats. Bot. Calif. 1. 141.

Var. **elatior.** Gray, Pl. Wright. 1. 46. Porter, Fl. Col. 22.

D. Parryi. Torr. & Gray; Gray, Proc. Am. Acad. 7. 397. Brew. & Wats. Bot. Calif. 1. 142.

D. divaricata, var. *cinerea.* Gray, l. c. 7. 331.

D. pogonathera. Gray, Pl. Fendl. 31; Pl. Wright. 1. 48 & 2. 37. Walp. Ann. 2. 359. Seem. Bot. Herald, 279. Torrey, Mex. Bound. 52.

D. polyadenia. Torrey; Watson, King's Rep. 5. 64, **t. 9.** Brew. & Wats. Bot. Calif. 1. 142.

D. polygonoides. Gray, Pl. Wright. 2. 39 & 40. Walp. Ann. 4. 482 & 483. Torrey, Mex. Bound. 52.

D. ramosissima. Benth. Bot. Sulph. 11, **t. 10.** Walp. Rep. 2. 513. Torrey, Emory's Rep. 138.

D. Schottii. Torrey, Mex. Bound. 53. Walp. Ann. 7. 709. Brew. & Wats. Bot. Calif. 1. 143.

D. scoparia. Gray, Pl. Fendl. 32; Pl. Wright. 1. 47, & 2. 38 & 41; Pl. Thurb. 305. Walp. Ann. 2. 360 & 4. 483. Torrey, Pac. R. Rep. 5. 360; Mex. Bound. 52.

D. spinosa. Gray, Pl. Thurb. 315; Ives's Rep. 10. Torrey, Pac. R. Rep. 4. 78; 7. 0, **t. 3**; Mex. Bound. 53. Walp. Ann. 4. 485. Watson, Proc. Am. Acad. 11. 132. Brew. & Wats. Bot. Calif. 1. 143.

Asagræa spinosa. Baillon, Adansonia, 9. 232; Hist. Pl. 2. 288.

D. Wislizeni. Gray, Pl. Fendl. 32; Pl. Wright. 2. 38 & 41. Walp. Ann. 2. 359 & 483. Seem. Bot. Herald, 279. Torrey, Mex. Bound. 52. Brew. & Wats. Bot. Calif. 1. 142.

D. Wrightii. Gray, Pl. Wright. 1. 49, & 2. 40 & 41. Walp. Ann. 4. 483 & 484. Torrey, Mex. Bound. 52.

D. agastachya; Petalostemon obovatus.
candida; Petalostemon candidus.
carnea; Petalostemon carneus.
D. Cliffortiana; alopecuroides.
compacta; Petalostemon macrostachyus.

D. divaricata; Parryi.
enneandra; laxiflora.
Kuhnistera; Petalostemon corymbosus.
lanuginosa; lanata.
Linnæi; alopecuroides.
ornata; Petalostemon ornatus.
parviflora; Astragalus gracilis.

D. pedunculata; alopecuroides.
penicillata; laxiflora.
pogonathera; lasiathera.
purpurea; Petalostemon violaceus.
villosa; Petalostemon villosus.
violacea; Petalostemon violaceus.
—— ?; Emoryi, lanata, mollis.

DESMANTHUS acuminatus. Benth. Hook. Journ. Bot. 4. 357; Rev. Mim. in Trans. Linn. Soc. 30. 387. Gray, Pl. Lindh. 184; Hall's Pl. Texas, 8

D. brachylobus. Benth. Hook. Journ. Bot. 4. 358; Rev. Mim. 387. Walp. Rep. 1. 864. Gray, Pl. Fendl. 38; Pl. Lindh. 184; Manual, 145; Hall's Pl. Texas, 8. Engelm. Pl. Upp. Miss. 190. Torrey, Pac. R. Rep. 4. 82. Wood, Bot. & Fl. 82.

Mimosa Illinoensis. Michx. Fl. 2. 254. Persoon, 2. 263. Poir. Suppl. 1. 73.

Acacia brachyloba. Willd. Spec. 4. 1071. Ait. f. Hort. Kew. 5. 468. DC. Cat. Monsp. 73. Pursh, 305. Spreng. Syst. 3. 141.

Darlingtonia brachyloba. DC. Mem. Leg. 427, **t. 66**; Ann. Sci. Nat. 1. 4. 97; Prodr. 2. 443. Don, Mill. 2. 397. Torr. & Gray, Fl. 1. 401. Eat. & Wr. 220. Torrey, Frem. Rep. 89; Emory's Rep. 139 & 408.

Darlingtonia intermedia. Torrey, Ann. Lyc. N. Y. 2. 181. Don, Mill. 2. 397. Eat. & Wr. 220.

Darlingtonia brevifolia. Raf. New Fl. 1. 42.

Desmanthus falcatus. Scheele, Linnæa, 21. 455.

Var. **glandulosus.** Engelm. & Gray, Pl. Lindh. 35.

Mimosa glandulosa. Michx. Fl. 2. 254. Vent. Choix, **t. 27.** Koen. & Sims, Ann. Bot. 2. 364. Persoon, 2. 263. Poir. Suppl. 1. 73.

Acacia glandulosa. Willd. Spec. 4. 1071; Enum. 1053. Ait. f. Hort. Kew. 5. 468. Pursh, 305. Spreng. Syst. 3. 141.

Mimosa contortuplicata. Zucc. Obs. Cent. 1, n. 100.

Darlingtonia glandulosa. DC. Mem. Leg. 427; Ann. Sci. Nat. 1. 4. 98; Prodr. 2. 443. Hook. Comp. Bot. Mag. 1. 24. Eat. & Wr. 220.

Darlingtonia brachyloba, var. *glandulosa.* Torr. & Gray, Fl. 1. 401. Torrey, Nicol. Rep. 149.

D. depressus. Humb. & Bonpl.; Willd. Spec. 4. 1046. Kunth, Mim. 115, t. 35. DC. Prodr. 2. 445. Benth. Hook. Journ. Bot. 4. 357; Rev. Mim. 386, with syn. Torr. & Gray, Fl. 1. 403. Gray, Pl. Lindh. 184. Griseb. Fl. Brit. W. Ind. 218. Chapman, 117.

D. diffusus. Willd. Spec. 2. 1046. DC. Prodr. 2. 444. Torr. & Gray, Fl. 1. 403. Chapman, 117.

D. Jamesii. Torr. & Gray, Fl. 1. 402; Pac. R. Rep. 2. 164. Walp. Rep. 1. 864. Gray, Pl. Wright. 2. 51. Torrey, Mex. Bound. 60. Benth. Rev. Mim. 386.

Acacia Cooleyi. Eaton, Manual, 5 ed. 89. Eat. & Wr. 111.

Var. **Fendleri.**

D. Jamesii. Gray, Pl. Fendl. 38.

D. Jamesii, var. Gray, Pl. Wright. 1. 63 & 2. 51.

D. reticulatus, var. Benth. Rev. Mim. 387.

D. velutinus (?). Watson, Pl. Wheeler, 37.

D. leptolobus. Torr. & Gray, Fl. 1. 402. Benth. in Hook. Journ. Bot. 4. 357; Rev. Mim. 386. Walp. Rep. 1. 864. Gray, Hall's Pl. Texas, 8. Young, Fl. Texas, 248.

D. reticulatus. Benth. in Hook. Journ. Bot. 4. 357; Rev. Mim. 386. Walp. Rep. 1. 864. Gray, Pl. Lindh. 184; Pl. Wright. 1. 61 & 2. 51; Hall's Pl. Texas, 8.

D. rhombifolius. Buckley, Proc. Acad. Philad. 1861, 454; fide Gray, same, 1862, 163. Walp. Ann. 7. 828.

D. velutinus. Scheele, Linnæa, 21. 455. Gray, Pl. Lindh. 183; Pl. Wright. 1. 61 & 64, & 2. 51; Hall's Pl. Texas, 8. Walp. Ann. 2. 450. Torrey, Mex. Bound. 60. Benth. Rev. Mim. 386.

D. pedunculatus. Buckley, l. c. 454; fide Gray, l. c. 163. Walp. Ann. 7. 828.

D. virgatus. Willd. Spec. 4. 1047. See syn. in Benth. Rev. Mim. 385. — Benth. Bot. Sulph. 14. Griseb. Fl. Brit. W. Ind. 218. Chapman, 117.

D. strictus. Bertol.; DC. Prodr. 2. 245. Torr. & Gray, Fl. 1. 403. Young, Fl. Texas, 248.

DESMODIUM acuminatum. DC. Prodr. 2. 329. Hook. Fl. Bor.-Am. 1. 154; Comp. Bot. Mag. 1. 23. Don, Mill. 2. 291. Beck, Bot. 85. Darling. Fl. Cestr. 417. Torr. & Gray, Fl. 1. 358. Torrey, Fl. N. Y. 1. 176; Frem. Rep. 89. Dietr. 4. 1148. Lesqx. Fl. Ark. 356. Chapman, 102. Pl. Bourgeau, 256. Gray, Manual, 135.

Hedysarum grandiflorum. Walter, 185.

Hedysarum glutinosum. Willd. Spec. 3. 1198. Poir. Dict. 6. 411. Persoon, 2. 322. Pursh, 483. Spreng. Syst. 3. 313.

Hedysarum acuminatum. Michx. Fl. 2. 72. Poir. Dict. 6. 427. Pursh, 483. Bigel. Fl. Bost. 275. Elliott, 2. 209. Torrey, Compend. 269. Spreng. Syst. 3. 313. Eat. & Wr. 262.

D. grandiflorum. DC. Prodr. 2. 338. Don, Mill. 2. 291.

D. batocaulon. Gray, Pl. Wright. 2. 47. Walp. Ann. 4. 538.

D. Canadense. DC. Prodr. 2. 328. Torrey, Ann. Lyc. N. Y. 2. 179; Fl. N. Y. 1. 177; Nicol. Rep. 149; Pac. R. Rep. 4. 82. Hook. Fl. Bor.-Am. 1. 154; Bot. Mag. t. 3553. Don, Mill. 2. 290. Beck, Bot. 83. Spach, Hist. Veg. 3. 313. Torr. & Gray, Fl. 1. 359 & 365. Dietr. 4. 1148. Seem. Bot. Herald, 280. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 189. Lesqx. Fl. Ark. 356. Chapman, 103. Pl. Bourgeau, 256. Gray, Manual, 136. Buchan, Canad. Naturalist, 14. 293.

Hedysarum Canadense. Linn. Spec. 748. Hill, Veg. Syst. 21, t. 37, f. 1. Medicus, Bot. Beobacht. 1783, 180. Ait. Hort. Kew. 3. 64. Willd. Spec. 3. 1187; Enum. 777. Poir. Dict. 6. 410. Persoon, 2. 321. Pursh, 481. Bigelow, Fl. Bost. 275. Elliott, 2. 214. Spreng. Syst. 3. 318. Torrey, Compend. 267. Eat. & Wr. 261.

Hedysarum scabrum. Moench, Meth. 618.

Var. **longifolium.** Torr. & Gray, Fl. 1. 365.

D. canescens. DC. Prodr. 2. 328. Don, Mill. 2. 290. Beck, Bot. 84. Darling. Fl. Cestr. 415. Torr. & Gray, Fl. 1. 359 & 365; Pac. R. Rep. 2. 163. Torrey, Fl. N. Y. 1. 177. Dietr. 4. 1148. Lesqx. Fl. Ark. 356. Chapman, 102. Gray, Manual, 135. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 320.

Hedysarum canescens. Linn. Spec. 748, in part. Poir. Dict. 6. 417, in part. Persoon, 2. 320. Pursh, 482. Spreng. Syst. 3. 313. Torrey, Compend. 268. Eat. & Wr. 262.

Hedysarum viridiflorum. Willd. Spec. 3. 1192, not Linn. Michx. Fl. 2. 72. Poir. Dict. 6. 430. Persoon, 2. 322. Pursh, 482. Nutt. Genera, 2. 109. Torrey, Compend. 268. Spreng. Syst. 3. 313.

Hedysarum scaberrimum. Elliott, 2. 217. Hook. Comp. Bot. Mag. 1. 23. Eat. & Wr. 263.

D. viridiflorum. DC. Prodr. 2. 329, excl. syn. Don, Mill. 2. 290.

D. Aikinianum. Beck, Bot. 84.

Hedysarum Aikini. Eaton, Manual, 7 ed. 166. Eat. & Wr. 272.

Var. **villosissimum.** Torr. & Gray, Fl. 1. 365.

D. Canadense, var. Hook. Comp. Bot. Mag. 1. 22.

D. ciliare. DC. Prodr. 2. 329. Don, Mill. 2. 290. Beck, Bot. 84. Hook. Comp. Bot. Mag. 1. 23. Darling. Fl. Cestr. 413. Torr. & Gray, Fl. 1. 362. Torrey, Fl. N. Y. 1. 180. Dietr. 4. 1149. Bertol. Bot. Misc. 9. 16. Chapman, 104. Gray, Manual, 137.

? *Hedysarum barbatum.* Walter, 184.

Hedysarum ciliare. Muhl.; Willd. Spec. 3. 1196. Poir. Dict. 6. 408. Persoon, 2. 322. Pursh, 482. Nutt. Genera, 2. 109. Elliott, 2. 212. Spreng. Syst. 3. 313. Torrey, Compend. 268. Eat. & Wr. 262.

Hedysarum obtusum. Muhl.; Willd. Spec. 3. 1190. Poir. Dict. 6. 417. Persoon, 2. 321. Spreng. Syst. 3. 313. Torrey, Compend. 268. Eat. & Wr. 262.

? *Hedysarum coriaceum.* Poir. Dict. 6. 418; Suppl. 1. 416. Persoon, 2. 321.

? *Lespedeza coriacea.* Desv. in Ann. [illegible] Nat. 1. 9. 417.

D. cinerascens. Gray, Pl. Wright. 2. [illegible] Walp. Ann. 4. 538. Torrey, Mex. Bound. 57.

D. cuspidatum. Hook. Comp. Bot. Mag. 1. 23. Torr. & Gray, Fl. 1. 360. Torrey, Fl. N. Y. 1. 178; Pac. R. Rep. 4. 82. Dietr. 4. 1148. Chapman, 102. Gray, Manual, 136.

Hedysarum cuspidatum. Muhl.; Willd. Spec. 3. 1198. Poir. Dict. 6. 427. Persoon, 2. 322. Pursh, 483. Bigel. Fl. Bost. 276. Spreng. Syst. 3. 313. Torrey, Compend. 269.

Hedysarum bracteosum. Michx. Fl. 2. 73. Poir. Dict. 6. 431. Persoon, 2. 322. Pursh, 482. Elliott, 2. 213. Eat. & Wr. 262.

D. bracteosum. DC. Prodr. 2. 329. Hook. Fl. Bor.-Am. 1. 154. Don, Mill. 2. 290. Beck, Bot. 85. Darling. Fl. Cestr. 416.

D. Dillenii. Darling. Fl. Cestr. 414. Torrey, Fl. N. Y. 1. 178. Torr. & Gray, Fl. 1. 360 & 365. Gray, Pl. Fendl. 37; Manual, 136. Dietr. 4. 1148. Engelm. Pl. Upp. Miss. 189. Chapman, 103.

Hedysarum Marilandicum. Willd. Spec. 3. 1189, not Linn.; Enum. 777. Poir. Dict. 6. 420. Persoon, 2. 321. Ait. f. Hort. Kew. 4. 342. Pursh, 482. Elliott, 2. 214. Spreng. Syst. 3. 312. Torrey, Compend. 268. Don, Mill. 2. 290. Hook. Comp. Bot. Mag. 1. 23.

D. Marilandicum. DC. Prodr. 2. 328. Beck, Bot. 84.

D. Boottii. Torrey in Curtis, Pl. Wilmington.

D. Floridanum. Chapman, 102.

D. glabellum. DC. Prodr. 2. 329. Don, Mill. 2. 290. Hook. Comp. Bot. Mag. 1. 23. Torr. & Gray, Fl. 1. 361. Dietr. 4. 1149. Chapman, 103. Wood, Bot. & Fl. 89.

Hedysarum glabellum. Michx. Fl. 2. 73. Poir. Dict. 6. 418. Persoon, 2. 321. Pursh, 482. Elliott, 2. 211. Eat. & Wr. 262.

D. Grahami. Gray, Pl. Wright. 2. 48. Walp. Ann. 4. 539. Torrey, Mex. Bound. 56.

D. gramineum. Gray, Pl. Wright. 2. 46.

D. humifusum. Beck, Bot. 86. Torr. & Gray, Fl. 1. 364. Eat. & Wr. 262. Walp. Rep. 1. 741. Dietr. 4. 1149. Canby, Proc. Acad. Philad. 1864, 17; Torr. Bulletin, 5. 19. Gray, Manual, 135.

Hedysarum humifusum. Muhl. Cat. 69, in part.

D. Illinoense. Gray, Proc. Am. Acad. 8. 289; Hall's Pl. Texas, 7.

D. lævigatum. DC. Prodr. 2. 329. Don, Mill. 2. 290. Beck, Bot. 85. Torr. & Gray, Fl. 1. 361 & 695. Dietr. 4. 1149. Chapman, 103. Gray, Manual, 136.

Hedysarum lævigatum. Nutt. Genera, 2. 109. Elliott, 2. 215. Spreng. Syst. 3. 321. Torrey, Compend. 269. Eat. & Wr. 262.

Hedysarum rhombifolium. Elliott, 2. 216. Spreng. Syst. 4². 290. Eat. & Wr. 263.

D. rhombifolium. DC. Prodr. 2. 330. Don, Mill. 2. 291. Torr. & Gray, Fl. 1. 361. Dietr. 4. 1148.

D. lineatum. DC. Prodr. 2. 330. Don, Mill. 2. 291. Hook. Comp. Bot. Mag. 1. 23. Torr. & Gray, Fl. 1. 364. Dietr. 4. 1149. Chapman, 104. Gray, Manual, 137.

Hedysarum lineatum. Michx. Fl. 2. 72, not Linn. Pursh, 484. Elliott, 2. 218. Spreng. Syst. 4². 290. Eat. & Wr. 263.

D. Marylandicum. Boott; Darling. Fl. Cestr. 2 ed. 412, not DC. Torr. & Gray, Fl. 1. 361. Torrey, Fl. N. Y. 1. 179. Dietr. 4. 1149. Chapman, 104. Gray, Manual, 137.

Hedysarum Marylandicum. Linn. Spec. 748, in part. Hill, Veg. Syst. 21, **t. 37, f. 3.** Walter, 185. Eat. & Wr. 262.

Hedysarum obtusum. Pursh, 482. Elliott, 2. 212.

D. obtusum. DC. Prodr. 2. 329, excl. syn. Don, Mill. 2. 290. Beck, Bot. 84. Bertol. Bot. Misc. 9. 15.

D. molle. DC. Prodr. 2. 332. Griseb. Fl. Brit. W. Ind. 188. Chapman, 102, with doubt.

D. Neo-Mexicanum. Gray, Pl. Wright. 1. 53 & 2. 47. Walp. Ann. 4. 539. Torrey, Mex. Bound. 57. Referred doubtfully (with *D. Bigelovii*) to *D. spirale* by Benth. in Mart. Fl. Bras. 15¹. 105.

D. exiguum. Gray, Pl. Wright. 2. 46. Torrey, Mex. Bound. 57.

Var. **Bigelovii.**

D. Bigelovii. Gray, Pl. Wright. 2. 47. Walp. Ann. 4. 538. Referred to *D. spirale* by Grisebach, Fl. Brit. W. Ind. 188.

D. nudiflorum. DC. Prodr. 2. 330. Hook. Fl. Bor.-Am. 1. 154; Comp. Bot. Mag. 1. 23. Don, Mill. 2. 291. Beck, Bot. 85. Darling. Fl. Cestr. 418. Torr. & Gray, Fl. 1. 358. Torrey, Fl. N. Y. 1. 176. Dietr. 4. 1148. Engelm. Pl. Upp. Miss. 189. Gray, Pac. R. Rep. 12. 42; Manual, 135. Lesqx. Fl. Ark. 356. Chapman, 102.

Hedysarum nudiflorum. Linn. Spec. 749. Hill, Veg. Syst. 21, **t. 39, f. 1.** Walter, 185. Willd. Spec. 3. 1198. Michx. Fl. 2. 71. Poir. Dict. 6. 430. Persoon, 2. 322. Pursh, 483. Bigel. Fl. Bost. 275. Elliott, 2. 209. Spreng. Syst. 3. 317. Torrey, Compend. 269. Eat. & Wr. 262.

D. ochroleucum. M. A. Curtis; Canby, Proc. Acad. Philad. 1864, 17; Torr. Bulletin, 5. 20. Gray, Manual, 135. Wood, Bot. & Fl. 88.

Hedysarum humifusum. Muhl. Cat. 69, in part.

D. paniculatum. DC. Prodr. 2. 329. Don, Mill. 2. 291. Beck, Bot. 85. Hook. Comp. Bot. Mag. 1. 23. Darling. Fl. Cestr. 413. Torr. & Gray, Fl. 1. 363. Torrey, Fl. N. Y. 1. 180; Pac. R. Rep. 4. 82; Mex. Bound. 57. Dietr. 4. 1149. Engelm. Pl. Upp. Miss. 189. Lesqx. Fl. Ark. 357. Chapman, 103. Gray, Manual, 136.

Hedysarum paniculatum. Linn. Spec. 748. Hill, Veg. Syst. 21, **t. 38**, f. 4. Walter, 185. Ait. Hort. Kew. 3. 65. Moench, Meth. 118. Willd. Spec. 3. 1196; Enum. 778. Poir. Dict. 6. 413. Persoon, 2. 322. Pursh, 483. Elliott, 2. 210. Bigel. Fl. Bost. 276. Spreng. Syst. 3. 313. Torrey, Compend. 269. Eat. & Wr. 262.

Var. **angustifolium.** Torr. & Gray, Fl. 1. 364.

Var. **pubens.** Torr. & Gray, Fl. 1. 364.

D. pubens. Young, Fl. Texas, 233.

D. pauciflorum. DC. Prodr. 2. 330. Hook. Fl. Bor.-Am. 1. 155; Comp. Bot. Mag. 1. 23. Don, Mill. 2. 291. Darling. Fl. Cestr. 417. Torr. & Gray, Fl. 1. 358. Dietr. 4. 1148. Torrey, Pac. R. Rep. 4. 82. Chapman, 101. Gray, Manual, 135.

Hedysarum pauciflorum. Nutt. Genera, 2. 109. Eat. & Wr. 262.

D. psilocarpum. Gray, Pl. Wright. 2. 48. Walp. Ann. 4. 539.

D. rigidum. DC. Prodr. 2. 330. Don, Mill. 2. 291. Darling. Fl. Cestr. 413. Torr. & Gray, Fl. 1. 362. Torrey, Fl. N. Y. 1. 180. Dietr. 4. 1149. Chapman, 104. Gray, Manual, 136.

Hedysarum rigidum. Elliott, 2. 215. Spreng. Syst. 4^2. 298. Eat. & Wr. 263.

D. rotundifolium. DC. Prodr. 2. 330. Don, Mill. 2. 291. Beck, Bot. 86. Darling. Fl. Cestr. 330. Torr. & Gray, Fl. 1. 364. Torrey, Fl. N. Y. 1. 181. Dietr. 4. 1149. Chapman, 103. Canby, Proc. Acad. Philad. 1864, 17. Gray, Manual, 135.

Hedysarum rotundifolium. Michx. Fl. 2. 72. Poir. Dict. 6. 431. Persoon, 2. 322. Pursh, 484. Bigel. Fl. Bost. 274. Elliott, 2. 213. Spreng. Syst. 3. 313. Torrey, Compend. 268. Eat. & Wr. 262.

Var. **glabratum.** Gray, Manual, 135.

Hedysarum humifusum. Muhl. Cat. 69, in part. Bigel. Fl. Bost. 274. Torrey, Compend. 268.

D. sessilifolium. Torr. & Gray, Fl. 1. 363. Walp. Rep. 1. 740. Dietr. 4. 1149. Gray, Pl. Fendl. 37; Manual, 136. Torr. Marcy's Rep. 284. Young, Fl. Tex. 233.

Hedysarum sessilifolium. Torrey; Curtis, Pl. Wilmington, 123, excl. var.

D. spirale. DC. Prodr. 2. 332. See syn. in Griseb. Fl. Brit. W. Ind. 188; Benth. in Mart. Fl. Bras. 15^1. 105.

D. annuum. Gray, Pl. Wright. 2. 46. Walp. Ann. 4. 540. Torrey, Mex. Bound. 56.

D. strictum. DC. Prodr. 2. 329. Don, Mill. 2. 291. Beck, Bot. 85. Hook. Comp. Bot. Mag. 1. 23. Torr. & Gray, Fl. 1. 363. Dietr. 4. 1149. Chapman, 103. Gray, Manual, 136.

Hedysarum strictum. Pursh, 483. Poir. Suppl. 5. 20. Nutt. Genera, 2. 109. Elliott, 2. 210. Spreng. Syst. 3. 312. Torrey, Compend. 269. Eat. & Wr. 262.

Hedysarum paniculatum. Michx. Fl. 2. 74.

D. tenuifolium. Torr. & Gray, Fl. 1. 363. Walp. Rep. 1. 740. Dietr. 4. 1149. Chapman, 103.

Hedysarum sessilifolium, var. *angustifolium.* Torrey; Curtis, Pl. Wilmington, 123.

D. tortuosum. DC. Prodr. 2. 332. Griseb. Fl. Brit. W. Ind. 188, with syn.

D. stipulaceum. Moç. & Sesse, Icon. Fl. Mex. ined. **t. 269.** DC. Prodr. 2. 330.

D. uncinatum. DC. Prodr. 2. 331. See syn. in Griseb. Fl. Brit. W. Ind. 187; Benth. in Mart. Fl. Bras. 15^1. 96.

Hedysarum uncinatum. Jacq. Hort. Schœnbr. 3, **t. 298.**

D. Sinclairi. Benth. Bot. Sulph. 82.

D. Sonoræ. Gray, Pl. Wright. 2. 47. Walp. Ann. 4. 538.

D. viridiflorum. Beck, Bot. 84, not DC. Hook. Comp. Bot. Mag. 1. 23. Darling. Fl. Cestr. 415. Torr. & Gray, Fl. 1. 360 & 365. Walp. Rep. 1. 740. Torrey, Fl. N. Y. 1. 179. Dietr. 4. 1148. Chapman, 102. Gray, Manual, 136.

Hedysarum viridiflorum. Linn. Spec. 748. Hill, Veg. Syst. 21, **t. 38, f. 1.** Walter, 185. Ait. Hort. Kew. 3. 65. Elliott, 2. 217. Eat. & Wr. 262.

D. Wislizeni. Engelm.; Gray, Pl. Wright. 1. 53. Walp. Ann. 4. 539. (Northern Mexico.)

D. Wrightii. Gray, Pl. Lindh. 177; Pl. Wright. 1. 53; Hall's Pl. Texas, 7. Walp. Ann. 2. 414. Torrey, Mex. Bound. 57.

D. annuum; spirale.
Aikinianum; canescens.
Bigelovii; Neo-Mexicanum.
Boottii; Dillenii.
bracteosum; cuspidatum.
exiguum; Neo-Mexicanum.
grandiflorum; acuminatum.
Marilandicum; Dillenii.

D. obtusum; Marilandicum.
pubens; paniculatum.
repens; Lespedeza repens.
rhombifolium; lævigatum.
Sinclairi & *Sonoræ;* uncinatum.
spirale; Neo-Mexicanum.
stipulaceum; tortuosum.
viridiflorum; canescens.

DIOCLEA Boykinii. Gray in herb. Torrey.

Dolichos multiflorus. Torr. & Gray, Fl. 1. 281. Eat. & Wr. 227. Chapman, 110. Wood, Bot. & Fl. 98.

DOLICHOS Lablab, Linn. Perhaps only cultivated.

D. purpureus, Linn. Eat. & Wr. 227.
D. Halei. Wood, Bot. & Fl. 98.

D. angulosus; Phaseolus diversifolius.
helvolus; Phaseolus helvolus.
luteolus; Vigna glabra.
minimus; Rhynchosia minima.
multiflorus; Dioclea Boykinii.

D. parabolicus; Phaseolus helvolus.
polystachyos; Phaseolus perennis.
regularis; Galactia glabella.
vexillatus; Phaseolus helvolus.

ERVUM Lens, Linn. A. H. Smith, Proc. Acad. Philad. 1867, 19.

E. emarginatum; Vicia micrantha.
erectum; Galactia sessiliflora.
hirsutum; Vicia hirsuta.
multiflorum; Astragalus multiflorus.

E. pilosum; Vicia Ludoviciana.
tetraspermum; Vicia tetrasperma.
tridentatum; Vicia Ludoviciana.
volubile; Galactia glabella.

ERYTHRINA coralloides. Moç. & Sesse, Icon. Fl. Mex. ined. **t. 253.** DC. Prodr. 2. 413. Dietr. 4. 1185. Gray, Pl. Thurb. 301. Torrey, Mex. Bound. 50.

E. herbacea. Linn. Spec. 706. Hill, Veg. Syst. 29, **t. 51, f. 1.** Medicus, Bot. Beobacht. 1783, 185. Lam. Dict. 2. 390; Ill. **t. 608, f. 2.** Walter, 180. Ait. Hort. Kew. 3. 8. Willd. Spec. 3. 912; Enum. 743. Michx. Fl. 2. 61. Sims, Bot. Mag. **t. 887.** Persoon, 2. 279. Pursh, 467. Nutt. Genera, 2. 92. Barton, Fl. N. Am. 1. 10, **t. 3.** Elliott, 2. 190. Lodd. Bot. Cab. **t. 851.** DC. Prodr. 2. 411. Spreng.

Syst. 3. 244. Don, Mill. 2. 370. Spach, Hist. Veg. 1. 354. Hook. Comp. Bot. Mag. 1. 24. Torr. & Gray, Fl. 1. 282. Eat. & Wr. 239. Dietr. 4. 1183. Cooper, Smithson. Rep. 1860, 440. Chapman, 107. Wood, Bot. & Fl. 97. Gray, Hall's Pl. Texas, 7.

Xyphanthus hederæfolius. Raf. Fl. Lud. 103.

E. hederæfolia. Spreng. Syst. 3. 244. Don, Mill. 2. 370. Dietr. 4. 1184.

EYSENHARDTIA amorphoides. HBK. Nov. Gen. 6. 489, **t. 592.** DC. Prodr. 2. 257. Dietr. 4. 1020. Gray, Pl. Lindh. 173; Pl. Wright. 1. 45 & 46; Hall's Pl. Texas, 8. Torrey, Sitgr. Rep. 158; Mex. Bound. 51.

E. Drummondii. Torr. & Gray, Fl. 1. 690.

E. Texana. Scheele, Linnæa, 21. 462.

Var. **orthocarpa.** Gray, Pl. Wright. 2. 37.

E. spinosa. Engelm.; Gray, Pl. Lindh. 174. Walp. Ann. 2. 360.

GALACTIA brachypoda. Torr. & Gray, Fl. 1. 288. Eat. & Wr. 248. Walp. Rep. 1. 761. Dietr. 4. 1177. Chapman, 109. Wood, Bot. & Fl. 98.

G. canescens. Benth. Comm. Leg. Gen. 62. Torr. & Gray, Fl. 1. 288 & 687. Eat. & Wr. 248. Walp. Rep. 1. 761. Dietr. 4. 1176. Gray, Pl. Lindh. 171; Hall's Pl. Texas, 7. Torrey, Mex. Bound. 50. Benth. & Hook. Gen. Pl. 1. 535.

Heterocarpæa Texana. Scheele, Linnæa, 21. 467.

G. Elliottii. Nutt. Genera, 2. 117. Elliott, 2. 240. DC. Prodr. 2. 239. Spreng. Syst. 3. 257. Don, Mill. 2. 219. Torr. & Gray, Fl. 1. 289 & 687. Eat. & Wr. 248. Chapman, 109. Wood, Bot. & Fl. 98.

G. pinnata. Muhl. Cat. 67, not Pers.

Tephrosia (?) *Elliottii.* Benth. Comm. Leg. Gen. 63.

G. filiformis. Benth. Comm. Leg. Gen. 63. Griseb. Fl. W. Ind. 194, & syn., including *G. pilosa*, Nutt.

G. tenuiflora, Wight & Arn. Benth. in Mart. Fl. Bras. 15[1]. 143, & syn.

G. Floridana. Torr. & Gray, Fl. 1. 288. Eat. & Wr. 248. Walp. Rep. 1. 761 & 2. 532. Dietr. 4. 1176. Chapman, 108.

Var. **microphylla.** Chapman, 108.

G. glabella. Michx. Fl. 2. 62. Persoon, 2. 302. Pursh, 487. Nutt. Genera, 2. 117. Elliott, 2. 239. DC. Prodr. 2. 238. Spreng. Syst. 3. 257. Desv. in Ann. Sci. Nat. 1. 9. 413. Torrey, Compend. 271; Fl. N. Y. 1. 162. Don, Mill. 2. 218. Beck, Bot. 81. Torr. & Gray, Fl. 1. 287. Eat. & Wr. 248. Dietr. 4. 1176. Chapman, 109. Gray, Manual, 142.

Dolichos regularis. Linn. Spec. 726. Hill, Veg. Syst. 21, **t. 19, f. 2.** Willd. Spec. 3. 1049. Poir. Suppl. 2. 499.

Ervum volubile. Walter, 187.

G. Purshii. Desv. in Ann. Sci. Nat. 1. 9. 413. Don, Mill. 2. 218.

G. heterophylla. Gray, Pl. Lindh. 171. Walp. Ann. 2. 421.

G. marginalis. Benth. Ann. Mus. Vind. 2. 126; Comm. Leg. Gen. 62; Mart. Fl. Bras. 15[1]. 141. Torr. & Gray, Fl. 1. 288 & 687. Eat. & Wr. 249. Dietr. 4. 1177. Gray, Pl. Wright. 1. 44; Hall's Pl. Texas, 7. Torrey, Mex. Bound. 50.

Cologania (?) *heterophylla.* Gill.; Hook. & Arn. in Hook. Bot. Misc. 3. 181.

G. mollis. Michx. Fl. 2. 61. Persoon, 2. 302. Pursh, 486. Elliott, 2. 238. Torr. & Gray, Fl. 1. 287. Eat. & Wr. 248. Dietr. 4. 1176. Chapman, 108. Referred (under the name of *G. pilosa*, Nutt.) by Grisebach, in Fl. Brit. W. Ind. 194, to *G. filiformis*, Benth., and by Benth., in Mart. Fl. Bras. 15[1]. 143, with *G. filiformis* to var. *villosa* of *G. tenuiflora*, Wight & Arn. See syn. under both citations.

? *Hedysarum volubile.* Linn. Spec. 750. Hill, Veg. Syst. 21, **t. 43, f. 4.** Willd. Spec. 3. 1204. Poir. Dict. 6. 432. Ait. f. Hort. Kew. 4. 345.

G. pilosa. Nutt. Genera, 2. 116, fide Chapman. DC. Prodr. 2. 237. Spreng. Syst. 2. 257. Don, Mill. 2. 218.

G. pilosa. Elliott, 2. 238, not Nutt. Hook. Comp. Bot. Mag. 1. 22? Torr. & Gray, Fl. 1. 287. Eat. & Wr. 248. Walp. Rep. 1. 761. Dietr. 4. 1176. Chapman, 108. Wood, Bot. & Fl. 98. Gray, Hall's Pl. Texas, 7.

G. mollis. Nutt. Genera, 2. 117, fide Chapman. DC. Prodr. 2. 237. Spreng. Syst. 3. 257. Torrey, Compend. 271. Don, Mill. 2. 218. Beck, Bot. 81. Gray, Manual, 142; Hall's Pl. Texas, 7.

G. villosa. Eat. & Wr. 248.

Var. **Macræi.** Torr. & Gray, Fl. 1. 287.

G. Macræi. M. A. Curtis, Journ. Bost. Soc. Nat. Hist. 1. 120, excl. syn.

Var. **angustifolia.** Torr. & Gray, Fl. 1. 287.

G. sessiliflora. Torr. & Gray, Fl. 1. 288 & 687. Eat. & Wr. 249. Dietr. 4. 1177. Curtis, Am. Journ. Sci. 2. 7. 406. Chapman, 109. Wood, Bot. & Fl. 98.

Ervum erectum. Walter, 187.

Glycine stricta. Hook. Comp. Bot. Mag. 1. 22. Eat. & Wr. 256. Walp. Rep. 1. 760. Dietr. 4. 1175.

G. spiciformis. Torr. & Gray, Fl. 1. 288. Eat. & Wr. 248. Walp. Rep. 1. 761. Dietr. 4. 1176. Chapman, 108.

G. brevistyla. Schlecht. in Linnæa, 12. 288, fide Chapman. Dietr. 4. 1177. Referred to *G. filiformis* (or *tenuiflora*) by Grisebach and Bentham, ll. cc.

G. tephrodes. Gray, Pl. Wright. 2. 34. Walp. Ann. 4. 554. Torrey, Mex. Bound. 50.

G. Texana. Gray, Pl. Lindh. 170; Pl. Wright. 1. 45. Walp. Ann. 2. 421.

Lablab Texanus. Scheele, Linnæa, 21. 467.

G. Wrightii. Gray, Pl. Wright. 1. 44. Walp. Ann. 4. 554. Torrey, Mex. Bound. 51.

GENISTA TINCTORIA, Linn. Bigel. Fl. Bost. 267. Torrey, Compend. 262; Fl. N. Y. 1. 185. Beck, Bot. 77. Torr. & Gray, Fl. 1. 369. Eat. & Wr. 252. Gray, Manual, 126.

GLEDITSCHIA monosperma. Walter, 254. Michx. Fl. 2. 257. Schkuhr, Handb. 3. 555. Persoon, 2. 623. Willd. Spec. 4. 1097; Enum. 1058. Nouv. Duham. 4. 101. Ait. f. Hort. Kew. 5. 474. Michx. f. Arbr. Am. 3. 164, **t. 10.** Pursh, 221. Poir. Suppl. 2. 641. Elliott, 2. 709. DC. Prodr. 2. 479. Spreng. Syst. 3. 919. Don, Mill. 2. 428. Spach, Hist. Veg. 1. 98. Torr. & Gray, Fl. 1. 398. Eat. & Wr. 254. Loud. Arbor. 2. 653, **f. 364.** Dietr. 4. 539. Chapman, 115. Gray, Manual, 145.

G. triacanthos, var. (*monosperma*). Linn. Spec. 1057. Ait. Hort. Kew. 3. 444.

G. aquatica. Marsh. Arbust. 54.

G. Caroliniensis. Lam. Dict. 2. 465; Ill. 3. 447, **t. 857, f. 2.** Roem. & Schult. Syst. 7. 74.

G. triacantha. Gaertn. Fruct. t. 146, not Linn.

G. triacanthos. Linn. Spec. 1056, excl. var. Medicus, Bot. Beobacht. 1782, 230. Lam. Dict. 2. 465; Ill. **t. 857, f. 1.** Ait. Hort. Kew. 3. 444, excl. vars. Moench, Meth. 69. Michx. Fl. 2. 257. Schkuhr, Handb. 3. 554, **t. 356.** Persoon, 2. 123. Willd. Spec. 4. 1097; Enum. 1058. Nouv. Duham. 4. 100, **t. 25.** Michx. f. Arbr. Am. 3. 164, **t. 10.** Pursh, 221. Nutt. Genera, 2. 239. James, Long's Exped. 1. 317.

Elliott, 2. 700. Guimp. Otto & Hayne, **t. 131.** DC. Prodr. 2. 479. Spreng. Syst. 3. 918. Torrey, Compend. 375; Fl. N. Y. 1. 192. Audubon, Birds, **t. 42, 146** & **150.** Roem. & Schult. Syst. 7. 73. Don, Mill. 2. 428. Beck, Bot. 93. Spach, Hist. Veg. 1. 92. Torr. & Gray, Fl. 1. 398. Eat. & Wr. 254. Loud. Arbor. 2. 650, **t. 90** & **91.** Dietr. 4. 539. Engelm. Pl. Upp. Miss. 190. Gray, Pac. R. Rep. 12. 42; Manual, 145. Curtis, Bot. N. Car. 49. Chapman, 115. Hunt, Am. Naturalist, 1. 433.

G. spinosa. Marsh. Arbust. 54.
G. Meliloba. Walter, 254.
G. elegans. Salisb. Prodr. Stirp. 323.
Melilobus heterophylla. Raf. Sylv. Tellur. 121.

Var. **inermis.** Pursh, 221. DC. Mem. Leg. **t. 22, f. 109.** Torr. & Gray, Fl. 1. 398. Loud. Arbor. 2. 650, **t. 92** & **93.**

Var. **brachycarpos.** Michx. Fl. 2. 257. Torr. & Gray, Fl. 1. 398.
G. brachycarpa. Pursh, 221. DC. Prodr. 2. 479. Spreng. Syst. 3. 919. Don, Mill. 2. 428. Eat. & Wr. 254. Loud. Arbor. 2. 653. Dietr. 4. 539.

GLYCINE *angulata* & *angulosa*; Phaseolus diversifolius.
Apios; Apios tuberosa.
bracteata; Amphicarpæa monoica.
Caribæa; Rhynchosia Caribæa.
Caroliniana; Rhynchosia tomentosa.
comosa & *elliptica*; Amphicarpæa monoica.
erecta; Rhynchosia tomentosa.
filosa; Amphicarpæa monoica.
frutescens; Wistaria frutescens.
helvola; Phaseolus helvolus.
heterocarpa & *monoica*; Amphicarpæa monoica.
G. mollissima; Rhynchosia mollissima.
monophylla; Rhynchosia tomentosa.
parabolica & *peduncularis*; Phaseolus helvolus.
pedunculosa; Phaseolus diversifolius.
reflexa; Rhynchosia minima.
reniformis; Rhynchosia tomentosa.
sarmentosa; Amphicarpæa monoica.
simplicifolia; Rhynchosia tomentosa.
stricta; Galactia sessiliflora.
tomentosa; Rhynchosia tomentosa.
umbellata; Phaseolus helvolus.
Virginica; Phaseolus diversifolius.

GLYCYRRHIZA lepidota. Pursh, 480. Poir. Suppl. 4. 656. Nutt. Genera, 2. 106. Sims, Bot. Mag. **t. 2150.** James, Cat. 178; Long's Exped. 2. 148. DC. Prodr. 2. 247. Spreng. Syst. 3. 201. Torrey, Ann. Lyc. N. Y. 2. 178; Nicol. Rep. 147; Frem. Rep. 88; Emory's Rep. 138 & 408; Sitgr. Rep. 158; Marcy's Rep. 283; Pac. R. Rep. 4. 79; Mex. Bound. 53; Bot. Wilkes, 268. Hook. Fl. Bor.-Am. 1. 138; Lond. Journ. Bot. 6. 207. Don, Mill. 2. 227. Torr. & Gray, Fl. 1. 298. Eat. & Wr. 256. Dietr. 4. 1042. Gray, Pl. Fendl. 31; Pl. Wright. 1. 50 & 2. 36; Proc. Acad. Philad. 1863, 61; Manual, 134; Proc. Am. Acad. 8. 380. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 188. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 41. Durand, Fl. Utah, 162. Pl. Bourgeau, 255; Porter, Hayd. Rep. 1870, 475; 1871, 480; Fl. Col. 31. Watson, King's Rep. 5. 78; Pl. Wheeler, 7. Coulter, Hayd. Rep. 1872, 764. Rothr. Pl. Wheeler, 36. Brew. & Wats. Bot. Calif. 1. 143.
Liquiritia lepidota. Nutt. in Fras. Cat. 1813.
G. glabra. Torrey, Emory's Rep. 408.

Var. **glutinosa.** Watson, Bot. Calif. 1. 144.
G. glutinosa. Nutt.; Torr. & Gray, Fl. 1. 298. Eat. & Wr. 256. Walp. Rep. 1. 672. Dietr. 4. 1042.

GYMNOCLADUS Canadensis. Lam. Dict. 1. 733; Ill. 3. 412, **t. 823.** Michx. Fl. 2. 241, **t. 51.** Persoon, 2. 626. Ait. f. Hort. Kew. 5. 400. Michx. f. Arbr. Am.

2. 272, t. **23**. Pursh, 304. Nutt. Genera, 2. 243. James, Long's Exped. 1. 321. Reichenb. Mag. Bot. t. **40**. DC. Prodr. 2. 480. Spreng. Syst. 2. 327. Torrey, Compend. 376; Ann. Lyc. N. Y. 2. 193; Fl. N. Y. 1. 196; Emory's Rep. 407. Hook. Fl. Bor.-Am. 1. 166. Don, Mill. 2. 429. Beck, Bot. 93. Spach, Hist. Veg. 1. 89. Torr. & Gray, Fl. 1. 398. Eat. & Wr. 258. Loud. Arbor. 2. 656, t. **99** & **100**. Richard. Arct. Exped. 424. Engelm. Pl. Upp. Miss. 190. Gray, Manual, 145. Briot, Rev. Hort. 1870, 436.

Guilandina dioica. Linn. Spec. 381. Marsh. Arbust. 56. Ait. Hort. Kew. 2. 56.

HEDYSARUM boreale. Nutt. Genera, 2. 110; Journ. Acad. Philad. 7. 19. DC. Prodr. 2. 343. Spreng. Syst. 3. 314. Hook. Fl. Bor.-Am. 1. 155. Don, Mill. 2. 302. Beck, Bot. 86. Hook. & Arn. Bot. Beechey, 122. Torr. & Gray, Fl. 1. 356. Ledeb. Fl. Ross. 1. 707. Dietr. 4. 1158. Seem. Bot. Herald, 28 & 51. Engelm. Pl. Upp. Miss. 189. Torrey, Pac. R. Rep. 4. 82. Hook. f. in Journ. Linn. Soc. 1. 121 & 124; Arct. Pl. 289. Pl. Bourgeau, 256. Rothr. Alask. 445. Gray, Manual, 134. Matthew, Pl. Acadia, 15. Coulter, Hayd. Rep. 1872, 764.

H. alpinum, var. *Americanum.* Michx. Fl. 2. 74. Poir. Dict. 6. 449. Pursh, 484. Torrey, Compend. 269. Eat. & Wr. 262.

H. alpinum. Richard. Frankl. Journ. 17.

H. Mackenzii. Richard. Frankl. Journ. 17. Hook. Fl. Bor.-Am. 1. 155. Don, Mill. 2. 302. Torr. & Gray, Fl. 1. 357. Walp. Rep. 1. 746. Eat. & Wr. 263. Dietr. 4. 1158. Seem. Bot. Herald, 51. Torrey, Stansb. Rep. 385. Hook. f. Journ. Linn. Soc. 1. 121 & 124; Arct. Pl. 289. Pl. Bourgeau, 256. Rothr. Alask. 445. Watson, King's Rep. 5. 78 & 419; Pl. Wheeler, 7. Porter, Hayd. Rep. 1871, 480; Fl. Col. 31. Coulter, Hayd. Rep. 1872, 764.

H. boreale. Richard. Frankl. Journ. 1 ed. 745. Durand, Fl. Utah, 162.

H. canescens. Nutt.; Torr. & Gray, Fl. 1. 357. Walp. Rep. 1. 746. Dietr. 4. 1158. Hook. in Lond. Journ. Bot. 6. 215.

H. dasycarpum. Turcz.; Ledeb. Fl. Ross. 1. 706, fide Regel & Tiling, Fl. Ajan, 79.

H. acuminatum; Desmodium acuminatum.
Aikini; Desmodium canescens.
alpinum; boreale.
barbatum; Desmodium ciliare.
bracteosum; Desmodium cuspidatum.
Canadense; Desmodium Canadense.
canescens; Mackenzii, Desmodium canescens.
ciliare; Desmodium ciliare.
conglomeratum; Lespedeza capitata.
coriaceum; Desmodium ciliare.
cuspidatum; Desmodium cuspidatum.
dasycarpum; Mackenzii.
divergens; Lespedeza violacea.
frutescens; L. violacea & capitata.
glabellum; Desmodium glabellum.
glutinosum & *grandiflorum;* Desmodium acuminatum.
hirtum; Lespedeza hirta.
H. humifusum; Desmodium humifusum, ochroleucum & rotundifolium.
junceum; Lespedeza reticulata.
lævigatum; Desmodium lævigatum.
Lespedeza; Lespedeza repens.
lineatum; Desmodium lineatum.
Marilandicum; Desmodium Marilandicum & Dillenii.
nudiflorum; Desmodium nudiflorum.
obtusum; D. ciliare & Marilandicum.
paniculatum; Desmodium paniculatum & strictum.
pauciflorum; D. pauciflorum.
prostratum; Lespedeza repens.
repens; Lespedeza repens.
reticulatum; Lespedeza reticulata.
rhombifolium; Desmodium lævigatum.
rigidum; Desmodium rigidum.
rotundifolium; D. rotundifolium.

H. scaberrimum; Desmodium canescens.
scabrum; Desmodium Canadense.
sessiliflorum; Lespedeza reticulata.
sessilifolium; Desmodium sessilifolium & tenuifolium.
strictum; Desmodium strictum.
tetraphyllum; Zornia tetraphylla.
umbellatum; Lespedeza capitata.
H. uncinatum; Desmodium uncinatum.
violaceum; Lespedeza violacea & reticulata.
Virginicum; Æschynomene hispida.
viridiflorum; Desmodium viridiflorum & canescens.
volubile; Galactia mollis.

HOFFMANSEGGIA brachycarpa. Gray, Pl. Wright. 1. 55, 57 & 2. 50. Walp. Ann. 4. 592. Torr. & Gray, Pac. R. Rep. 2. 163.

H. caudata. Gray, Pl. Lindh. 179; Pl. Wright. 1. 54. Walp. Ann. 2. 443. Torrey, Mex. Bound. 58. Young, Fl. Texas, 243.

H. drepanocarpa. Gray, Pl. Wright. 1. 58 & 2. 50. Walp. Ann. 4. 593. Torr. & Gray, Pac. R. Rep. 2. 163. Torrey, Pac. R. Rep. 4. 82. Porter, Fl. Col. 33.

H. Drummondii. Torr. & Gray, Fl. 1. 393. Walp. Rep. 1. 811. Gray, Pl. Wright. 1. 55. Young, Fl. Texas, 243.

H. gladiata. Benth.; Gray, Pl. Wright. 1. 57. Walp. Ann. 4. 593. (Mex.)

H. Jamesii. Torr. & Gray, Fl. 1. 393. Gray, Pl. Lindh. 178; Pl. Fendl. 38; Pl. Wright. 1. 54 & 2. 49; Ives's Rep. 11. Engelm. in Wisliz. Rep. 4 & 9. Torrey, Marcy's Rep. 284, t. 4; Pac. R. Rep. 4. 82; Mex. Bound. 58. Torr. & Gray, Pac. R. Rep. 2. 126 & 163. Young, Fl. Texas, 243. Porter, Fl. Col. 33.
Pomaria glandulosa. Torrey, Ann. N. Y. Lyc. 2. 193. Eat. & Wr. 370.
Pomaria Jamesii. Walp. Rep. 1. 811.

H. melanosticta. Gray, Pl. Wright. 1. 54. Torrey, Mex. Bound. 58. Benth. & Hook. Gen. Pl. 1. 567.
Pomaria melanosticta. Schauer, Linnæa, 20. 748. Walp. Ann. 1. 257.

H. microphylla. Torrey, Mex. Bound. 58.

H. oxycarpa. Benth.; Gray, Pl. Wright. 1. 55 & 2. 50. Walp. Ann. 4. 592. Torrey, Mex. Bound. 58.

H. platycarpa. Benth.; Gray, Pl. Wright. 1. 57 (Mex.)

H. stricta. Benth.; Gray, Pl. Wright. 1. 56 & 2. 50. Walp. Ann. 4. 593. Torrey, Pac. R. Rep. 7. 10; Mex. Bound. 58.

Var. **demissa.** Gray, Pl. Wright. 1. 56 & 2. 50. Torr. & Gray, Pac. R. Rep. 2. 163. Torrey, Pac. R. Rep. 4. 82; Mex. Bound. 58.
H. densiflora. Benth.; Gray, Pl. Wright. 1. 55. Seem. Bot. Herald, 281. Walp. Ann. 4. 593.

HOMALOBUS. See under *Astragalus.*

H. brachycarpus & canescens; A. cæspitosus.
decumbens; A. campestris.
H. dispar; A. multiflorus.
orthocarpus; A. junceus.
tenuifolius; A. campestris.

HOSACKIA angustifolia. Don, Mill. 2. 200. Walp. Rep. 2. 855. Seem. Bot. Herald, 279. Gray, Syn. Hos. in Proc. Acad. Philad. 1863, 349; Proc. Am. Acad. 8. 626. Watson, King's Rep. 5. 434.
H. Mexicana. Benth. in Linn. Trans. 17. 365.
Indigofera (?) *hippocrepoides.* Schlecht. in Linnæa, 12. 283. Walp. Rep. 1. 671.

H. argophylla. Gray, Pl. Thurb. 316; Ives's Rep. 9; Syn. 347. Walp. Ann.

4. 477. Torrey, Bot. Mex. 55. Watson, King's Rep. 5. 62 & 433; Proc. Am. Acad. 11. 114. Brew. & Wats. Bot. Calif. 1. 138.

H. argentea. Kellogg, Proc. Calif. Acad. 3. 38, **f. 8.**

Var. **Fremonti.** Gray, Syn. 347. Watson, King's Rep. 5. 62.

H. bicolor. Dougl.; Benth. in Bot. Reg. 15, **t. 1257**; Linn. Trans. 17. 365; Pl. Hartw. 304. Hook. Fl. Bor.-Am. 1. 134. Don, Mill. 2. 200. Torr. & Gray, Fl. 1. 322. Hook. & Arn. Bot. Beechey, 137. Eat. & Wr. 273. Walp. Rep. 1. 648. Durand, Pl. Pratten. 85. Torrey, Pac. R. Rep. 4. 79; Mex. Bound. 54; Bot. Wilkes, 272. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 58. Gray, Syn. 350; Proc. Am. Acad. 8. 380 & 626. Boland. Cat. 9. Watson, King's Rep. 5. 434. Brew. & Wats. Bot. Calif. 1. 135.

Lotus pinnatus. Hook. Bot. Mag. **t. 2913.**

Rafinesquia (or *Flundula*) *comosa.* Raf. Fl. Tellur. 2. 96.

H. brachycarpa. Benth. Pl. Hartw. 306. Walp. Ann. 2. 358. Durand, Pl. Pratten. 85. Torrey, Mex. Bound. 55. Gray, Syn. 352. Boland. Cat. 9. Watson, King's Rep. 5. 435. Brew. & Wats. Bot. Calif. 1. 137.

Lotus brachycarpus. Benth. & Hook. Gen. Pl. 1. 490.

H. crassifolia. Benth. in Linn. Trans. 17. 365. Torr. & Gray, Fl. 1. 323. Hook. & Arn. Bot. Beechey, 332. Eat. & Wr. 274. Walp. Rep. 1. 644. Dietr. 4. 1011. Gray, Syn. 350; Proc. Am. Acad. 8. 380 & 626. Boland. Cat. 9. Watson, King's Rep. 5. 434. Brew. & Wats. Bot. Calif. 1. 135.

H. stolonifera. Lindl. Bot. Reg. 23, **t. 1977.** Torr. & Gray, Fl. 1. 323. Eat. & Wr. 274. Walp. Rep. 1. 648. Dietr. 4. 1011. Torrey, Pac. R. Rep. 4. 79. Bolander, Cat. 9.

H. platycarpa. Nutt.; Torr. & Gray, Fl. 1. 323. Eat. & Wr. 273. Walp. Rep. 1. 6 Dietr. 4. 1011.

H oides. Benth. in Linn. Trans. 17. 366; Pl. Hartw. 306. Torr. & Gray, H Hook. & Arn. Bot. Beechey, 332. Eat. & Wr. 274. Walp. Rep. 1. 649. Dietr. 4. 1011. Torrey, Pac. R. Rep. 4. 79 & 7. 10; Mex. Bound. 55. Gray, Syn. 347. Boland. Cat. 9. Watson, King's Rep. 5. 433. Brew. & Wats. Bot. Calif. 1. 138.

H. decumbens. Benth. in Bot. Reg. 15, under t. 1257; Linn. Trans. 17. 366. Hook. Fl. Bor.-Am. 1. 134; Lond. Journ. Bot. 6. 210. Don, Mill. 2. 200. Torr. & Gray, Fl. 1. 324. Hook. & Arn. Bot. Beechey, 137. Eat. & Wr. 273. Walp. Rep. 1. 649. Dietr. 4. 1011. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 58. Gray, Syn. 347; Proc. Am. Acad. 8. 380. Torrey, Bot. Wilkes, 274. Watson, King's Rep. 5. 433. Brew. & Wats. Bot. Calif. 1. 318.

Var. **Nevadensis.** Watson, Bot. Calif. 1. 318.

H. Heermanni. Anderson, Pl. Nev. 119. Watson, King's Rep. 5. 63, in part.

H. glabra. Torrey, Bot. Wilkes, 274. Brew. & Wats. Bot. Calif. 1. 137.

Syrmatium glabrum. Vogel, Linnæa, 10. 591. Dietr. 4. 1013.

H. scoparia. Nutt.; Torr. & Gray, Fl. 1. 325. Eat. & Wr. 274. Walp. Rep. 1. 649. Benth. Pl. Hartw. 306. Torrey, Pac. R. Rep. 7. 10; Mex. Bound. 55. Gray, Ives's Rep. 9; Proc. Bost. Soc. Nat. Hist. 7. 146; Syn. 346. Boland. Cat. 9. Watson, King's Rep. 5. 433.

Var. **diffusus.** Gray, Syn. 346.

H. crassifolia. Nutt.; Torr. & Gray, Fl. 1. 325 & 692. Eat. & Wr. 274. Walp. Rep. 1. 649. Dietr. 4. 1012.

H. gracilis. Benth. in Linn. Trans. 17. 365. Torr. & Gray, Fl. 1. 323. Hook. & Arn. Bot. Beechey, 332. Eat. & Wr. 274. Walp. Rep. 1. 648. Dietr. 4. 1011.

Newberry, Pac. R. Rep. 6. 71. Torrey, Mex. Bound. 54, **t. 15**; Bot. Wilkes, 273. Gray, Syn. 350; Proc. Am. Acad. 8. 380 & 623. Boland. Cat. 9. Watson, King's Rep. 5. 434. Brew. & Wats. Bot. Calif. 1. 135.

H. grandiflora. Benth. in Linn. Trans. 17. 366. Torr. & Gray, Fl. 1. 323 & 692. Hook. & Arn. Bot. Beechey, 332. Eat. & Wr. 274. Walp. Rep. 1. 649. Dietr. 4. 1011. Durand, Pl. Pratten. 86. Torrey, Pac. R. Rep. 4. 79. Gray, Syn. 350. Boland. Cat. 9. Watson, King's Rep. 5. 434; Proc. Am. Acad. 11. 114. Brew. & Wats. Bot. Calif. 1. 316.

H. ochroleuca. Nutt.; Torr. & Gray, Fl. 1. 323. Eat. & Wr. 274. Walp. Rep. 1. 648. Dietr. 4. 1011.

H. Heermanni. Durand. & Hilg. in Journ. Acad. Philad. 2. 3. 39; Pac. R. Rep. 5. 6, **t. 4.** Gray, Syn. 348. Walp. Ann. 7. 795. Watson, King's Rep. 5. 63 in part, & 433. Brew. & Wats. Bot. Calif. 1. 139.

H. incana. Torrey, Pac. R. Rep. 4. 79, **t. 4.** Gray, Syn. 349; Proc. Am. Acad. 8. 626. Watson, King's Rep. 5. 434. Brew. & Wats. Bot. Calif. 1. 134.

H. juncea. Benth. in Linn. Trans. 17. 366. Torr. & Gray, Fl. 1. 325. Hook. & Arn. Bot. Beechey, 332. Eat. & Wr. 274. Walp. Rep. 1. 649. Dietr. 4. 1012. Torrey, Mex. Bound. 55; Bot. Wilkes, 274. Gray, Syn. 346. Boland. Cat. 9. Watson, King's Rep. 5. 433. Brew. & Wats. Bot. Calif. 1. 138.

H. maritima. Nutt.; Torr. & Gray, Fl. 1. 326. Eat. & Wr. 275. Walp. Rep. 1. 650. Dietr. 4. 1012. Gray, Syn. 351. Boland. Cat. 9. Watson, King's Rep. 5. 434. Brew. & Wats. Bot. Calif. 1. 136.

H. micrantha. Nutt.; Torr. & Gray, Fl. 1. 324. Eat. & Wr. 274. Walp. Rep. 1. 649. Dietr. 4. 1011. Gray, Syn. 348. Boland. Cat. 9. Watson, King's Rep. 5. 433. Torrey, Bot. Wilkes, 274? Brew. & Wats. Bot. Calif. 1. 138.

H. oblongifolia. Benth. Pl. Hartw. 305. Newberry, Pac. R. Rep. 6. 71? Torrey, Mex. Bound. 54. Walp. Ann. 2. 358. Gray, Syn. 350; Proc. Am. Acad. 8. 626. Watson, King's Rep. 5. 434. Brew. & Wats. Bot. Calif. 1. 135.

Var. **angustifolia.** Watson, Bot. Calif. 1. 135.

H. lathyroides. Durand. & Hilg. in Journ. Acad. Philad. 2. 3. 38; Pac. R. Rep. 5. 6, **t. 3.** Gray, Syn. 349; Proc. Am. Acad. 8. 626. Walp. Ann. 7. 706. Watson, King's Rep. 5. 434.

H. parviflora. Benth. in Bot. Reg. 15, under t. 1257. Hook. Fl. Bor.-Am. 1. 134. Don, Mill. 2. 200. Torr. & Gray, Fl. 1. 325. Eat. & Wr. 273. Walp. Rep. 1. 649. Dietr. 4. 1012. Torrey, Pac. R. Rep. 4. 79; Bot. Wilkes, 273. Cooper, Pac. R. Rep. 12. 58. Gray, Syn. 351; Proc. Am. Acad. 8. 380. Boland. Cat. 9. Watson, King's Rep. 5. 434. Brew. & Wats. Bot. Calif. 1. 136.

Lotus micranthus. Benth. Linn. Trans. 17. 367. Hook. & Arn. Bot. Beechey, 332.

H. prostrata. Nutt.; Torr. & Gray, Fl. 1. 325. Eat. & Wr. 274. Walp. Rep. 1. 649. Dietr. 4. 1011. Gray, Syn. 348. Boland. Cat. 9. Watson, King's Rep. 5. 433. Brew. & Wats. Bot. Calif. 1. 138.

? *H. decumbens*, var. *glabriuscula.* Hook. & Arn. Bot. Beechey, 137.

H. puberula. Benth. Pl. Hartw. 305. Walp. Ann. 2. 358. Seem. Bot. Herald. 279. Gray, Pl. Wr. 1. 50; Ives's Rep. 9; Syn. 349. Torrey, Pac. R. Rep. 7. 10, **t. 4.** Watson, King's Rep. 5. 419 & 433. Rothrock, Pl. Wheeler, 36. Brew. & Wats. Bot. Calif. 1. 136.

H. Purshiana. Benth. in Bot. Reg. under t. 1257; Pl. Hartw. 306. Don, Mill. 2. 200. Torr. & Gray, Fl. 1. 327. Hook. & Arn. Bot. Beechey, 137. Walp. Rep. 1. 650. Torrey, Nicol. Rep. 148; Sitgr. Rep. 175; Pac. R. Rep. 4. 79; Bot. Wilkes,

273. Dietr. 4. 1012. Hook. in Lond. Journ. Bot. 6. 210. Gray, Pl. Fendl. 33; Pl. Wright. 2. 42; Pac. R. Rep. 12. 42; Proc. Bost. Soc. Nat. Hist. 7. 146; Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 60; Syn. 352; Proc. Am. Acad. 8. 380. Engelm. Pl. Upp. Miss. 189. Durand, Pl. Pratten. 85. Dur. & Hilg. in Pac. R. Rep. 5. 7. Newberry, same, 6. 71. Cooper, same, 12. 51. Chapman, 91. Anderson, Cat. Pl. Nev. 119. Boland. Cat. 9. Porter, Hayd. Rep. 1870, 474; Fl. Col. 21. Watson, King's Rep. 5. 63 & 434; Pl. Wheeler, 7. Brew. & Wats. Fl. Calif. 1. 137.

Lotus sericeus. Pursh, 489. Poir. Suppl. 5. 721. Seringe, DC. Prodr. 2. 211. Benth. in Linn. Trans. 17. 368. Benth. & Hook. Gen. Pl. 1. 490.

Trigonella Americana. Nutt. Genera, 2. 120. Seringe, DC. Prodr. 2. 185. James, Cat. 178. Torrey, Ann. Lyc. N. Y. 2. 174.

H. unifoliolata. Hook. Fl. Bor.-Am. 1. 135. Don, Mill. 2. 469. Walp. Rep. 1. 649. Eat. & Wr. 273. Dietr. 4. 1012.

Acmispon sericeum. Raf. New. Fl. 1. 53.

H. elata, floribunda & mollis. Nutt.; Torr. & Gray, Fl. 1. 327. Eat. & Wr. 273. Walp. Rep. 1. 650. Dietr. 4. 1012.

H. pilosa. Nutt.; Torr. & Gray, Fl. 1. 327 & 692. Eat. & Wr. 273. Walp. Rep. 1. 650.

Lotus (?) *unifoliolatus.* Benth. in Linn. Trans. 17. 368.

Lotus Americanus. Bischof, Del. Sem. h. Heidelb. 1839 (Litt.-Ber. zu Linnæa, 14. 132).

Trigonella sericea. Eat. & Wr. 459.

H. rigida. Bentham, Pl. Hartw. 305. Walp. Ann. 2. 358. Gray, Syn. 348. Bolander, Cat. 9. Watson, King's Rep. 5. 433. Parry, Am. Naturalist, 9. 269. Brew. & Wats. Bot. Calif. 1. 316.

H. puberula. Gray, Pl. Wright. 2. 42, not Benth. Torrey, Pac. R. Rep. 4. 79; Mex. Bound. 55.

H. sericea. Benth. in Linn. Trans. 17. 367. Torr. & Gray, Fl. 1. 325. Hook. & Arn. Bot. Beechey, 332. Eat. & Wr. 274. Walp. Rep. 1. 649. Dietr. 4. 1012. Gray, Syn. 347. Boland. Cat. 9. Watson, King's Rep. 5. 433. Brew. & Wats. Bot. Calif. 1. 138.

H. stipularis. Benth. in Linn. Trans. 17. 365. Torr. & Gray, Fl. 1. 323. Hook. & Arn. Bot. Beechey, 332. Eat. & Wr. 274. Walp. Rep. 1. 648. Dietr. 4. 1011. Gray, Syn. 349; Proc. Am. Acad. 8. 626. Boland. Cat. 9. Watson, King's Rep. 5. 434. Brew. & Wats. Bot. Calif. 1. 134

H. macrophylla. Kellogg, Proc. Calif. Acad. 2. 123.

H. balsamifera. Kellogg, same, 2. 125, **f. 40.** Gray, Syn. 352.

H. strigosa. Nutt.; Torr. & Gray, Fl. 1. 326. Eat. & Wr. 274. Walp. Rep. 1. 650. Dietr. 4. 1012. Torrey, Pac. R. Rep. 4. 79 & 7. 10; Mex. Bound. 54. Gray, Syn. 351. Boland. Cat. 9. Watson, King's Rep. 5. 434. Brew. & Wats. Bot. Calif. 1. 137.

H. microphylla, nudiflora & rubella. Nutt.; Torr. & Gray, Fl. 1. 326. Eat. & Wr. 273. Walp. Rep. 1. 650. Dietr. 4. 1012.

H. maritima. Torrey, Mex. Bound. 55. Gray, Ives's Rep. 9.

H. subpinnata. Torr. & Gray, Fl. 1. 326 & 692. Eat. & Wr. 275. Walp. Rep. 1. 650. Dietr. 4. 1012. Benth. Pl. Hartw. 306. Torrey, Pac. R. Rep. 4. 79; Mex. Bound. 55; Bot. Wilkes, 273. Newberry, Pac. R. Rep. 6. 71. Gray, Syn. 352. Boland. Cat. 9. Watson, King's Rep. 5. 63 & 435. Parry, Am. Naturalist, 9. 269. Brew. & Wats. Bot. Calif. 1. 137.

Lotus subpinnatus. Lagasca, Gen. & Sp. 23. Don, Mill. 2. 196. Benth. in Linn. Trans. 17. 367. Hook. & Arn. Bot. Beechey, 17, t. 8, & 332. Gay, Fl. Chil. 2. 78. Benth. & Hook. Gen. Pl. 1. 490.

Anthyllis Chilensis. DC. Prodr. 2. 171.

Lotus Macræi. Benth. in Linn. Trans. 17. 367.

Lotus Wrangeliana. Fisch. & Meyer, Ind. Sem. h. Petersb. 1835, 16 (Litt.-Ber. zu Linnæa, 1837, 110; Ann. Sci. Nat. 2. 5. 183). Hook. Comp. Bot. Mag. 2. 3.

Anisolotus anthylloides & Wrangeliana. Bernh. Sel. Sem. h. Erf. 1837.

H. Wrangeliana. Torr. & Gray, Fl. 1. 326. Eat. & Wr. 275. Walp. Rep. 1. 650. Dietr. 4. 1012.

H. tomentosa. Hook. & Arn. Bot. Beechey, 137 & 332. Benth. in Linn. Trans. 17. 366. Torr. & Gray, Fl. 1. 324 & 692. Eat. & Wr. 274. Walp. Rep. 1. 649. Gray, Pl. Thurb. 317; Syn. 347. Torrey, Mex. Bound. 55; Bot. Wilkes, 274. Boland. Cat. 9. Watson, King's Rep. 5. 433. Brew. & Wats. Bot. Calif. 1. 139.

Syrmatium tomentosum. Vogel, Linnæa, 10. 591. Dietr. 4. 1013.

H. Torreyi. Gray, Proc. Am. Acad. 8. 625. Brew. & Wats. Bot. Calif. 1. 135.

Var. **Nevadensis.** Gray, l. c.

H. Wrightii. Gray, Pl. Wright. 2. 42; Syn. 349. Torrey, Sitgr. Rep. 158; Mex. Bound. 55. Walp. Ann. 4. 477. Watson, King's Rep. 5. 433. Brandegee, Fl. S. W. Col. 234. Brew. & Wats. Bot. Calif. 1. 136.

H. argentea; argophylla.
balsamifera; stipularis.
crassifolia; glabra.
decumbens; prostrata.
elata & floribunda; Purshiana.
Heermanni; decumbens.
lathyroides; oblongifolia.
macrophylla; stipularis.
maritima; strigosa.
Mexicana; angustifolia.
microphylla; strigosa.
H. mollis; Purshiana.
nudiflora; strigosa.
ochroleuca; grandiflora.
pilosa; Purshiana.
platycarpa; crassifolia.
puberula; rigida.
rubella; strigosa.
scoparia; glabra.
stolonifera; crassifolia.
unifoliolata; Purshiana.
Wrangeliana; subpinnata.

INDIGOFERA Anil, Linn. Chapman, 96. Ravenel, Torr. Bot. Bull. 6. 93.

I. Caroliniana. Walter, 187. Michx. Fl. 2. 68. Persoon, 2. 328. Poir. Suppl. 3. 145. Pursh, 488. Elliott, 2. 244. DC. Prodr. 2. 229. Spreng. Syst. 3. 278. Don, Mill. 2. 211. Torr. & Gray, Fl. 1. 298 & 688. Eat. & Wr. 283. Dietr. 4. 1040. Neisler, Am. Journ. Sci. 2. 24. 288. Chapman, 96. Benth. in Mart. Fl. Bras. 15[1]. 42. Wood, Bot. & Fl. 95.

I. leptosepala. Nutt.; Torr. & Gray, Fl. 1. 298. Eat. & Wr. 283. Walp. Rep. 1. 670. Engelm. & Gray, Pl. Lindh. 6. Dietr. 4. 1040. Scheele, Roem. Texas, 429. Torrey, Marcy's Rep. 283; Pac. R. Rep. 4. 80; Mex. Bound. 51. Gray, Pl. Wright. 1. 45 & 2. 37; Hall's Pl. Texas, 7. Chapman, 96. Wood, Bot. & Fl. 95. Watson, Pl. Wheeler, 8.

Indigofera, n. sp. Torrey, Ann. Lyc. N. Y. 2. 176.

I. tinctoria. Hook. Comp. Bot. Mag. 1. 22.

I. cinerea & Texana. Buckley, Proc. Acad. Philad. 1861, 451; fide Gray, same, 1862, 162.

I. Lindheimeriana. Scheele, Linnæa, 21. 464. Walp. Ann. 2. 363. Gray, Pl. Wright. 1. 45. Torrey, Mex. Bound. 51. Benth. in Mart. Fl. Bras. 15[1]. 42.

I. Anil, var. *polyphylla*. Gray, Pl. Lindh. 172.

I. sphærocarpa. Gray, Pl. Wright. 2. 37. Walp. Ann. 4. 487. Benth. l. c.

I. TINCTORIA, Linn. Chapman, 96.

LATHYRUS Engelmanni. Bischof, Del. Sem. h. Heidelb. 1839 (Litt.-Ber. zu Linnæa, 14. 132). Walp. Rep. 1. 719. Dietr. 4. 1118. Watson, Proc. Am. Acad. 11. 133.

L. littoralis. Endl. Gen. Pl. 1279. Walp. Rep. 1. 722. Dietr. 4. 1115. Watson, Proc. Am. Acad. 11. 134. Brew. & Wats. Bot. Calif. 1. 160.

Astrophia littoralis. Nutt.; Torr. & Gray, Fl. 1. 278. Eat. & Wr. 150.

Orobus littoralis. Gray, Pac. R. Rep. 4. 77. Cooper, same, 12. 58, **t. 6.** Torrey, Bot. Wilkes, 268.

L. maritimus. Bigel. Fl. Bost. 2 ed. 268. Audubon, Birds, **t. 191.** Torr. & Gray, Fl. 1. 273. Eat. & Wr. 292. Torrey, Fl. N. Y. 1. 157; Bot. Wilkes, 266. Dietr. 4. 1114. Seem. Bot. Herald, 28. Lange, Pl. Grönl. 135. Hook. Fl. Antarct. 1. 260; Arct. Pl. 289. Cooper, Pac. R. Rep. 38 & 58. Pl. Bourgeau, 256. Rothr. Fl. Alask. 445. Matthew, Pl. Acad. 21. Gray, Manual, 139. Trautvetter, Trudi Peterb. 3. 66. Watson, Proc. Am. Acad. 11. 133. Brew. & Wats. Bot. Calif. 1. 158.

Pisum maritimum. Linn. Spec. 727. Willd. Spec. 3. 1071. Poir. Dict. 5. 456. Pursh, 470. Nutt. Genera, 2. 95. Richard. Journ. Frankl. 17. Seringe, DC. Prodr. 2. 368. Spreng. Syst. 3. 257. Torrey, Compend. 263. Cham. in Linnæa, 6. 547. Beck, Bot. 90. Bongard, Veg. Sitch. 130. Schlecht. Fl. Lab. in Linnæa, 10. 100. Ledeb. Fl. Ross. 1. 661, with syn.

L. venosus. Sweet, Brit. Fl. Gard. 2 ser. **t. 37.**

L. Californicus. Dougl.; Lindl. Bot. Reg. 14, **t. 1144.** Don, Mill. 2. 333. Dietr. 4. 1114.

L. pisiformis. Hook. Fl. Bor.-Am. 1. 158. Don, Mill. 2. 333. Hook. & Arn. Bot. Beechey, 123.

Orobus maritimus. Reichenb. Fl. Exc. 538. Alefeld, Bonplandia, 9. 144.

L. Nevadensis. Watson, Proc. Am. Acad. 11. 133. Brew. & Wats. Bot. Calif. 1. 160.

L. polymorphus. Hook. in Lond. Journ. Bot. 6. 207.

L. venosus, var. *oboratus.* Torrey, Pac. R. Rep. 4. 77.

L. ochroleucus. Hook. Fl. Bor.-Am. 1. 159; Lond. Journ. Bot. 6. 207. Don, Mill. 2. 333. Gray, Ann. Lyc. N. Y. 3. 225; Manual, 139. Torr. & Gray, Fl. 1. 275. Eat. & Wr. 292. Walp. Rep. 1. 721. Torrey, Fl. N. Y. 1. 157, **t. 22.** Dietr. 4. 1114. Parry, Pl. Minn. 610. Seem. Bot. Herald, 51. Hook. f. Arct. Pl. 289. Pl. Bourgeau, 256. Watson, Proc. Am. Acad. 11. 133.

L. pisiformis. Richard. Journ. Frankl. 17.

L. glaucifolius. Beck, Bot. 90.

L. albidus. Eaton, Manual.

Orobus ochroleucus. A. Braun, Ind. Sem. h. Berl. 1853. Alefeld, Bonplandia, 9. 146.

L. ornatus. Nutt.; Torr. & Gray, Fl. 1. 277. Eat. & Wr. 293. Walp. Rep. 1. 721. Torrey, Nicol. Rep. 147. Dietr. 4. 1115. Hook. in Lond. Journ. Bot. 6. 207. Engelm. in Wislizenus Rep. 5. Gray, Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 90. Watson, King's Rep. 5. 79; Proc. Am. Acad. 11. 134. Porter, Hayd. Rep. 1871, 481. Brew. & Wats. Bot. Calif. 1. 160.

L. polymorphus. Torrey, Ann. Lyc. N. Y. 2. 180.

L. paluster. Linn. Spec. 733. See syn. in Ledeb. Fl. Ross. 1. 686; Trautvetter, Trudi Peterb. 3. 65.—Michx. Fl. 2. 66. Pursh, 471. Bigel. Fl. Bost. 2 ed. 269. Spreng. Syst. 3. 264. Torrey, Compend. 263; Fl. N. Y. 1. 158; Nicol. Rep. 147; Bot. Wilkes, 267. Hook. Fl. Bor.-Am. 1. 161. Beck, Bot. 90. Torr. & Gray, Fl. 1. 275. Hook. & Arn. Bot. Beechey, 335. Eat. & Wr. 292. Walp. Rep. 1. 721. Parry, Pl. Minn. 610. Seem. Bot. Herald, 28. Cooper, Pac. R. Rep. 12. 51 & 58. Hook. f. Arct. Pl. 289. Pl. Bourgeau, 256. Matthew, Pl. Acad. 20. Gray, Manual, 139. Porter, Hayd. Rep. 1870, 475; 1871, 481; Fl. Col. 32. Watson, King's Rep. 5. 78 & 419; Pl. Wheeler, 8; Proc. Am. Acad. 11. 134. Coulter, Hayd. Rep. 1872, 764. Rothr. Pl. Wheeler, 36. Brew. & Wats. Bot. Calif. 1. 159.

L. polymorphus. Gray, Ives's Rep. 10, in part.

L. Lanszwertii. Kellogg, Proc. Calif. Acad. 2. 150, **fig. 44.**

Var. **myrtifolius.** Gray, Pl. Fendl. 30; Struct. Bot. 412, **fig. 796–799**; Proc. Acad. Philad. 1863, 60; Manual, 139. Porter, Hayd. Rep. 1871, 481. Coulter, same, 1872, 764. Watson, Proc. Am. Acad. 11. 134. Brew. & Wats. Bot. Calif. 1. 159.

L. myrtifolius. Muhl.; Willd. Spec. 3. 1091. Persoon, 2. 305. Poir. Suppl. 2. 776. Pursh, 471. James, Cat. 186. Seringe, DC. Prodr. 2. 371. Torrey, Compend. 263; Ann. Lyc. N. Y. 2. 180; Fl. N. Y. 1. 158; Sitgr. Rep. 158. Hook. Fl. Bor.-Am. 1. 160. Don, Mill. 2. 334. Beck, Bot. 90. Torr. & Gray, Fl. 1. 275. Eat. & Wr. 292. Dietr. 4. 1114. Gray, Manual, 1 ed. 94. Chapman, 99. Wood Bot. & Fl. 86.

L. stipulaceus. LeConte, Torr. Cat. Pl. N. Y. 92. Seringe, DC. Prodr. 2. 371. Hook. Fl. Bor.-Am. 1. 160. Don, Mill. 2. 333.

L. decaphyllus, var. *minor.* Hook. & Arn. Bot. Beechey, 138.

L. venosus, var. *δ.* Torr. & Gray, Fl. 1. 274. Durand, Pl. Pratten. 85; Fl. Utah, 161. Torrey, Pac. R. Rep. 4. 77. Gray, Proc. Am. Acad. 8. 381. Watson, Pl. Wheeler, 8.

Orobus myrtifolius. Alefeld, Bot. Zeit. 18. 162; Bonplandia, 9. 145.

L. polyphyllus. Watson, King's Rep. 5. 78. Porter, Hayd. Rep. 1871, 481. Coulter, same, 1872, 764.

L. pubescens. Nutt.; Porter, Fl. Col. 32.

Var. (**angustifolius**). Gray, Pl. Wright. 2. 32. Torrey, Sitgr. Rep. 157; Mex. Bound. 49.

L. polymorphus. Nutt. Genera, 2. 96. Spreng. Neue Entdeck. 1. 289. Seringe, DC. Prodr. 2. 371. Don, Mill. 2. 334. Torr. & Gray, Fl. 1. 277. Nees, Pl. Neu-Wied. 8. Dietr. 4. 1114. Gray, Pl. Fendl. 30; Pl. Wright. 2. 32; Pac. R. Rep. 12. 41; Ives's Rep. 10, in part; Proc. Acad. Philad. 1863, 60. Engelm. Pl. Upp. Miss. 188. Torrey, Sitgr. Rep. 157; Pac. R. Rep. 4. 77; Mex. Bound. 49. Porter, Fl. Col. 32. Watson, Pl. Wheeler, 8; Proc. Am. Acad. 11. 134. Brew. & Wats. Bot. Calif. 1. 160.

L. decaphyllus. Pursh, 471. Poir. Suppl. 5. 691. Bradbury, Cat. 337. James, Long's Exp. 1. 63. Don, Mill. 2. 333. Eat. & Wr. 293.

Vicia stipulacea. Pursh, 739. Poir. Suppl. 5. 472. Bradbury, Cat. 337.

L. myrtifolius. Spreng. Syst. 3. 264.

Orobus polymorphus. Alefeld, Bonplandia, 9. 146.

L. polyphyllus. Nutt.; Torr. & Gray, Fl. 1. 274. Eat. & Wr. 292. Walp. Rep. 1. 720. Dietr. 4. 1114. Durand, Fl. Utah, 161? Cooper, Pac. R. Rep. 12. 58. Gray, Proc. Am. Acad. 8. 381. Watson, same, 11. 133. Brew. & Wats. Bot. Calif. 1. 158.

L. pratensis, Linn. Gray, Manual, 140.

L. pusillus. Elliott, 2. 223. Seringe, DC. Prodr. 2. 371. Torr. & Gray, Fl. 1. 273. Eat. & Wr. 293. Walp. Rep. 1. 719. Dietr. 4. 1118. Chapman, 99. Wood, Bot. & Fl. 85. Gray, Hall's Pl. Texas, 7. Watson, Proc. Am. Acad. 11. 133.

L. sulphureus. Brewer; Gray, Proc. Am. Acad. 7. 399. Watson, same, 11. 133. Brew. & Wats. Bot. Calif. 1. 159.

L. ochroleucus, var. Torrey, Pac. R. Rep. 4. 77.

L. Torreyi. Gray, Proc. Am. Acad. 7. 337 & 8. 380. Boland. Cat. 10. Torrey, Bot. Wilkes, 267. Watson, Proc. Am. Acad. 11. 134. Brew. & Wats. Bot. Calif. 1. 160.

L. (?) *villosus.* Torrey, Cooper, Pac. R. Rep. 4. 58.

L. venosus. Muhl.; Willd. Spec. 3. 1092. Persoon, 2. 305. Poir. Suppl. 2. 776. Pursh, 471. Bigelow, Fl. Bost. 167. Nutt. Genera, 2. 96. Seringe, DC. Prodr. 2. 371. Spreng. Syst. 3. 264. Torrey, Compend. 263; Nicol. Rep. 147; Pac. R. Rep. 7. 9 ?; Mex. Bound. 49 ? Hook. Fl. Bor.-Am. 1. 160; Lond. Journ. Bot. 6. 207 ? Sweet, Brit. Fl. Gard. 2 ser. **t. 37.** Beck, Bot. 90. Don, Mill. 2. 333. Torr. & Gray, Fl. 1. 274. Eat. & Wr. 292. Walp. Rep. 1. 720. Dietr. 4. 1114. Parry, Pl. Minn. 610. Engelm. Pl. Upp. Miss. 188. Gray, Pac. R. Rep. 12. 41; Manual, 139. Cooper, Pac. R. Rep. 12. 58. Chapman, 99. Pl. Bourgeau, 256. Watson, Proc. Am. Acad. 11. 133. Brew. & Wats. Bot. Calif. 1. 159.

L. decaphyllus. Hook. Fl. Bor.-Am. 1. 159; Bot. Mag. **t. 3123.**

Orobus venosus. A. Braun, Ind. Sem. h. Berl. 1853.

Orobus Muhlenbergii. Alefeld, Bonplandia, 9. 146.

L. ochroleucus. Torrey, Bot. Wilkes, 267.

Var. **Californicus.** Watson, Proc. Am. Acad. 11. 133. Brew. & Wats. Bot. Calif. 1. 159.

L. venosus. Benth. Pl. Hartw. 307. Boland. Cat. 10.

? *L. decaphyllus.* Hook. & Arn. Bot. Beechey, 138.

L. venosus, var. Torrey, Pac. R. Rep. 4. 76. Durand, Pl. Pratten, 85.

? *Orobus Californicus.* Alefeld, Bonplandia, 9. 146.

L. vestitus. Nutt.; Torr. & Gray, Fl. 1. 276. Eat. & Wr. 292. Walp. Rep. 1. 721. Dietr. 4. 1114. Torrey, Pac. R. Rep. 4. 76 & 7. 9; Mex. Bound. 49. Boland. Cat. 10. Watson, Proc. Am. Acad. 11. 134. Brew. & Wats. Bot. Calif. 1. 159.

L. strictus. Nutt.; Torr. & Gray, Fl. 1. 276. Eat. & Wr. 293. Walp. Rep. 1. 721. Dietr. 4. 1114.

? *L. venosus*, var. Durand, Pl. Pratten. 85.

L. venosus, var. *grandiflorus.* Torrey, Pac. R. Rep. 4. 77.

L. maritimus Torrey, Mex. Bound. 49.

Orobus vestitus. Alefeld, Bonplandia, 9. 145.

L. aliudus; ochroleucus.
Americanus; Baptisia perfoliata.
Californicus; maritimus.
decaphyllus; paluster, polymorphus & venosus.
diffusus & *disitifolius;* Vicia Americana.
glaucifolius; ochroleucus.
Lamazwertii; paluster.
lacuaris; Vicia Americana.
maritimus; vestitus.
L. myrtifolius; paluster & polymorphus.
ochroleucus; sulphureus & venosus.
pisiformis; maritimus & ochroleucus.
polymorphus; Nevadensis, ornatus & paluster.
polyphyllus, pubescens & *stipulaceus;* paluster.
strictus; vestitus.
venosus, maritimus, Nevadensis, paluster & vestitus.
villosus; Torreyi.

LESPEDEZA angustifolia. Elliott, 2. 206. DC. Prodr. 2. 349. Spreng. Syst. 3. 202. Torrey, Compend. 266. Beck, Bot. 87. Don, Mill. 2. 308. Eat. & Wr. 298. Gray, Proc. Am. Acad. 12. 57.

L. capitata, var. *angustifolia*. Pursh, 480. Torr. & Gray, Fl. 1. 368. Gray, Manual, 138; Am. Journ. Sci. 3. 7. 153. Maxim. Syn. 379 & 380, referring it mostly to *L. hirta*, var.

L. capitata. Michx, Fl. 2. 71. Persoon, 2. 318. Pursh, 480. Nutt. Genera, 2. 108. DC. Prodr. 2. 349. Bigelow, Fl. Bost. 2 ed. 272. Spreng. Syst. 3. 202. Beck, Bot. 87. Don, Mill. 2. 308. Hook. Comp. Bot. Mag. 1. 23. Torr. & Gray, Fl. 1. 368. Eat. & Wr. 298. Torrey, Fl. N. Y. 1. 184; Frem. Rep. 88; Pac. R. Rep. 4. 82. Dietr. 4. 1162. Gray, Pl. Fendl. 37; Manual, 138; Proc. Am. Acad. 12. 57. Bertol. Bot. Misc. 9. 14. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 189. Chapman, 101. Maximowicz, Syn. Lesped. in Act. Hort. Petrop. 2. 380.

? *Hedysarum umbellatum*. Walter, 184.

Hedysarum frutescens. Willd. Spec. 3. 1193, not Linn. Ait. f. Hort. Kew, 4. 343. Bigelow, Fl. Bost. 169.

Hedysarum conglomeratum. Poir. Dict. 6. 416.

L. fruticosa. Persoon, 2. 318. Spreng. Syst. 3. 202.

Hallia conglomerata. Poir. Suppl. 3. 3.

L. frutescens. Elliott, 2. 206. Torrey, Compend. 266. Beck, Bot. 87. Don, Mill. 2. 308. Darlington, Fl. Cestr. 421. Eat. & Wr. 298.

Var. **longifolia**. Torr. & Gray, Fl. 1. 368. Maxim. Syn. 380.

L. longifolia. DC. Prodr. 2. 349. Don, Mill. 2. 308. Eat. & Wr. 298.

Var. **sericea**. Hook. Comp. Bot. Mag. 1. 23. Maxim. Syn. 380.

L. hirta. Elliott, 2. 207. Torrey, Compend. 267; Fl. N. Y. 1. 183. Torr. & Gray, Fl. 1. 368. Eat. & Wr. 298. Dietr. 4. 1162. Engelm. Pl. Upp. Miss. 189. Gray, Pac. R. Rep. 12. 42; Manual, 138; Proc. Am. Acad. 12. 57. Lesqx. Fl. Ark. 357. Chapman, 101. Maxim. Syn. 379.

Hedysarum hirtum. Linn. Spec. 748. Walter, 185. Willd. Spec. 3. 1193. Poir. Dict. 6. 409. Ait. f. Hort. Kew. 4. 344. Bigelow, Fl. Bost. 170.

L. polystachya. Michx. Fl. 2. 71, **t. 40**. Persoon, 2. 318. Pursh, 480. DC. Prodr. 2. 349. Bigelow, Fl. Bost. 2 ed. 272. Spreng. Syst. 3. 202. Hook. Fl. Bor. Am. 1. 156. Beck, Bot. 87. Don, Mill. 2. 308. Darlington, Fl. Cestr. 421.

Hallia hirta. Poir. Suppl. 3. 3.

Var. **angustifolia**. Maxim. Syn. 379.

L. leptostachya. Engelm.; Gray, Proc. Am. Acad. 12. 57.

L. repens. Barton, Prodr. Fl. Philad. 2. 77? Beck, Bot. 88. Torr. & Gray, Fl. 1. 367. Eat. & Wr. 298. Torrey, Fl. N. Y. 1. 182. Gray, Pl. Fendl. 37; Manual, 137; Hall's Pl. Texas, 7; Am. Journ. Sci. 3. 7. 153. Walp. Ann. 3. 850. Lesqx. Fl. Ark. 357. Chapman, 100. Maxim. Syn. 363.

Hedysarum repens. Linn. Spec. 749. Hill, Veg. Syst. 21, **t. 39, fig. 2**. Walter, 185. Willd. Spec. 3. 1201. Poir. Dict. 6. 425. Persoon, 2. 322. Spreng. Syst. 3. 318.

H. prostratum. Muhl.; Willd. Spec. 3. 1200. Poir. Dict. 6. 428. Persoon, 2. 232.

H. Lespedeza. Poir. Dict. 6. 415.

L. procumbens. Michx. Fl. 2. 70, **t. 39**. Persoon, 2. 318. Pursh, 481. Nutt. Genera, 2. 108. Elliott, 2. 207. DC. Prodr. 2. 350. Spreng. Syst. 3. 203. Torrey, Compend. 267; Fl. N. Y. 1. 182. Beck, Bot. 88. Don, Mill. 2. 308. Darling. Fl. Cestr. 422. Torr. & Gray, Fl. 1. 366. Eat. & Wr. 298. Lesqx. Fl. Ark. 357. Gray, Manual, 137. Wood, Bot. & Fl. 90.

Hallia Lespedeza. Poir. Suppl. 3. 3.

L. prostrata. Pursh, 481. Nutt. Genera, 2. 108. Elliott, 2. 208. DC. Prodr. 2. 350. Bigelow, Fl. Bost. 2 ed. 274. Spreng. Syst. 3. 203. Torrey, Compend. 267. Hook. Fl. Bor.-Am. 1. 156; Comp. Bot. Mag. 1. 25. Beck, Bot. 88. Don, Mill. 2. 308.

Desmodium repens. DC. Prodr. 2. 338. Don, Mill. 2. 291.

L. STRIATA, Hook. & Arn. Gray, Am. Naturalist, 1. 495; Am. Journ. Sci. 3. 7. 153. Porter, Am. Naturalist, 2. 39.

L. reticulata. Persoon, 2. 318. Nutt. Genera, 2. 107. DC. Prodr. 2 348. Spreng. Syst. 3. 202. Torrey, Compend. 267. Hook. Fl. Bor.-Am. 1. 156. Beck, Bot. 86. Bertol. Bot. Misc. 9. 13. Maxim. Syn. 365.

Hedysarum violaceum. Linn. Spec. 749, in part. Walter, 185. Willd. Spec. 3. 1195.

H. reticulatum. Willd. Spec. 3. 1194. Poir. Dict. 6. 415. Bigel. Fl. Bost. 170.

H. sessiliflorum. Poir. Dict. 6. 414. Curtis, Journ. Bost. Soc. 1. 123.

L. sessiliflora. Michx Fl. 2. 70, in part. Pursh, 481. Nutt. Genera, 2. 107. Elliott, 2. 204. Bigel. Fl. Bost. 2 ed. 273. DC. Prodr. 2. 349. Spreng. Syst. 3. 202. Torrey, Compend. 267. Beck, Bot. 86. Darling. Fl. Cestr. 420. Eat. & Wr. 298.

Hallia reticulata & sessiliflora. Poir. Suppl. 3. 3.

L. violacea. Elliott, 2. 205.

L. violacea, var. *sessiliflora.* Don, Mill. 2. 307. Torr. & Gray, Fl. 1. 367. Torrey, Fl. N. Y. 1. 183; Mex. Bound. 57. Chapman, 101. Gray, Manual, 137.

L. violacea, var. *reticulata.* Don, Mill. 2. 307. Chapman, 101.

Var. **angustifolia.** Maxim. Syn. 366.

Medicago Virginica. Linn. Spec. 778. Hill, Veg. Syst. 22, **t. 46, fig. 1.** Desrous. in Lam. Dict. 3. 628.

Hedysarum junceum. Walter, 185.

Hedysarum reticulatum. Muhl.; Willd. Spec. 3. 1194.

L. sessiliflora. Michx. Fl. 2. 70, in part.

Hallia juncea. Poir. Suppl. 3. 3.

L. frutescens. DC. Prodr. 2. 349, excl. syn.

L. angustifolia. Hook. Comp. Bot. Mag. 1. 23. Darling. Fl. Cestr. 420.

L. violacea, var. *angustifolia.* Torr. & Gray, Fl. 1. 367. Torrey, Fl. N. Y. 1. 183. Gray, Manual, 137.

L. Stuvei. Nutt. Genera, 2. 107. Elliott, 2. 204. DC. Prodr. 2. 349. Spreng. Syst. 3. 202. Torrey, Compend. 266. Beck, Bot. 87. Don, Mill. 2. 308. Hook. Comp. Bot. Mag. 1. 23. Darling. Fl. Cestr. 422. Torr. & Gray, Fl. 1. 367; Pac. R. Rep. 2. 163. Eat. & Wr. 298. Walp. Rep. 1. 748. Dietr. 4. 1162. Chapman, 101. Gray, Manual, 137. Maxim. Syn. 360.

L. Nuttallii. Darling. Fl. Cestr. 2 ed. 420.

L. violacea. Persoon, 2. 318. Pursh, 481. Nutt. Genera, 2. 108. Bigel. Fl. Bost. 2 ed. 273. DC. Prodr. 2. 350. Spreng. Syst. 3. 202. Torrey, Compend. 267; Fl. N. Y. 1. 183. Beck, Bot. 87. Hook. Comp. Bot. Mag. 1. 23. Don, Mill. 2. 307. Torr. & Gray, Fl. 1. 367, excl. vars. Eat. & Wr. 298. Dietr. 4. 1162. Lesqx. Fl. Ark. 357. Chapman, 100. Gray, Manual, 137. Maxim. Syn. 362. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 321.

Hedysarum violaceum. Linn. Spec. 749, excl. syn. Hill, Veg. Syst. 21, **t. 38, fig. 3.** Ait. Hort. Kew. 3. 65. Poir. Dict. 6. 415. Bigel. Fl. Bost. 171.

Hedysarum frutescens. Linn. Spec. 749. Walter, 185.

Æschynomene frutescens. Poir. in Lam. Dict. 4. 451.

Hedysarum divergens. Muhl.; Willd. Spec. 3. 1106. Poir. Dict. 6. 415. Bigel. Fl. Bost. 171.

Hallia frutescens & violacea. Poir. Suppl. 3. 3.

L. divergens. Pursh, 481. Bigel. Fl. Bost. 2 ed. 273. Elliott, 2. 205. DC. Prodr. 2. 350. Eat. & Wr. 298.

L. violacea, var. *divergens.* Don, Mill. 2. 307.

L. angustifolia; capitata & reticulata.
coriacea; Desmodium ciliare.
cytisoides; Rhynchosia galactioides.
divergens; violacea.
frutescens; capitata & reticulata.

L. fruticosa & longifolia; capitata.
Nuttallii; Stuvei.
polystachya; hirta.
procumbens & prostrata; repens.
sessiliflora & violacea; reticulata.

LEUCÆNA retusa. Benth. in Gray, Pl. Wright. 1. 64; Rev. Mim. in Linn. Trans. 30. 443. Gray, Pl. Wright. 2. 53. Walp. Ann. 4. 617. Torrey, Mex. Bound. 61.

Acacia Sabeana. Buckley, Proc. Acad. Philad. 1861, 453; fide Gray in same, 1862, 163.

LOTUS. See under *Hosackia.*

L. Americanus; H. Purshiana.
Macrei; H. subpinnata.
micrantha; H. parviflora.
pinnatus; H. bicolor.

L. sericeus & unifoliolatus; H. Purshiana.
Wrangeliana; H. subpinnata.

LUPINUS affinis. Agardh, Syn. Lup. 20, in part. Torr. & Gray, Fl. 1. 376. Hook. & Arn. Bot. Beechey, 335. Walp. Rep. 1. 600. Dietr. 4. 940. Lindl. Journ. Hort. Soc. Lond. 3. 312. Boland. Cat. 8. Watson, Rev. Lup. in Proc. Am. Acad. 8. 535. Brew. & Wats. Bot. Calif. 1. 122.

? *L. cervinus.* Kellogg, Proc. Calif. Acad. 2. 229, **fig. 73.**

L. albicaulis. Dougl.; Hook. Fl. Bor.-Am. 1. 165. Don, Mill. 2. 366. Agardh, Syn. 29. Torr. & Gray, Fl. 1. 378. Eat. & Wr. 307. Walp. Rep. 1. 602. Dietr. 4. 942. Durand, Pl. Pratten. 86. Boland. Cat. 8. Watson, Rev. Lup. 527. Torrey, Bot. Wilkes, 280. Brew. & Wats. Bot. Calif. 1. 118.

L. Mexicanus. Torrey, Sitgr. Rep. 158, not Lag.

L. laxiflorus. Torrey, Pac. R. Rep. 4. 81, not Dougl.

L. foliosus. Nutt.; Gray, Proc. Am. Acad. 8. 379.

Var. **Bridgesii.** Watson, Rev. Lup. 527. Brew. & Wats. Bot. Calif. 1. 119.

L. Andersoni. Watson, King's Rep. 5. 58; Rev. Lup. 531. Brew. & Wats. Bot. Calif. 1. 120.

Var. (?) **Grayi.** Watson, Rev. Lup. 531. Brew. & Wats. l. c.

L. arboreus. Sims, Bot. Mag. t. **682.** Persoon, 2. 294. Willd. Enum. 732. Ait. f. Hort. Kew. 4. 287. Poir. Suppl. 3. 520. DC. Prodr. 2. 409. Spreng. Syst. 3. 226. Don, Mill. 2. 368. Spach, Hist. Veg. 1. 353. Agardh, Syn. 25. Lindl. Bot. Reg. 24, t. **32.** Walp. Rep. 1. 601. Dietr. 4. 941. Benth. Pl. Hartw. 303. Torrey, Mex. Bound. 57; Bot. Wilkes, 281. Boland. Cat. 8. Watson, Rev. Lup. 523. Brew. & Wats. Bot. Calif. 1. 117.

L. sericeus. Esch. in Mem. Acad. Petersb. 10. 289 (Litt.-Ber. zu Linnæa, 1838, 151), not Pursh.

L. arboreus, var. *odoratissimus*. Fisch. & Mey. in Ind. Sem. h. Petrop. 2. 16.

L. ricularis. Agardh, Syn. 24. Torr. & Gray, Fl. 1. 376, chiefly. Hook. & Arn. Bot. Beechey, 335. Dietr. 4. 941. Durand, Pl. Pratten. 86. Torrey, Mex. Bound. 57.

L. macrocarpus. Hook. & Arn. Bot. Beechey, 138. Torr. & Gray, Fl. 1. 381. Walp. Rep. 1. 604. Dietr. 4. 943. Newberry, Pac. R. Rep. 6. 71. Boland. Proc. Calif. Acad. 3. 79.

L. arcticus. Watson, Rev. Lup. 526.

L. perennis. Richard. Journ. Frankl. 17. Hook. Fl. Bor.-Am. 1. 163, in part. Hook. & Arn. Bot. Beechey, 123. Ledeb. Fl. Ross. 1. 511. Seem. Bot. Herald, 28 & 51. Hook. f. Arct. Pl. 289. Rothr. Fl. Alask. 445.

L. argenteus. Pursh, 468. Poir. Suppl. 5. 722. DC. Prodr. 2. 408. Spreng. Syst. 3. 227. Hook. Fl. Bor.-Am. 1. 164. Don, Mill. 2. 367. Torr. & Gray, Fl. 1. 377, in part. Eat. & Wr. 307. Watson, Rev. Lup. 532. Porter, Fl. Col. 20. Brew. & Wats. Bot. Calif. 1. 121.

L. tenellus. Dougl.; Don, Mill. 2. 367. Agardh, Syn. 27.

L. laxiflorus, vars. *foliosus* & *tenellus*. Torr. & Gray, Fl. 1. 377. Walp. Rep. 1. 602.

L. ornatus. Newberry, Pac. R. Rep. 6. 70.

Var. **decumbens.** Watson, Rev. Lup. 532. Porter, Fl. Col. 20. Rothrock, Pl. Wheeler, 37.

L. argenteus. James, Cat. 186.

L. decumbens. Torrey, Ann. Lyc. N. Y. 2. 191. Don, Mill. 2. 367. Torr. & Gray, Fl. 1. 381. Eat. & Wr. 306. Walp. Rep. 1. 604. Dietr. 4. 943. Gray, Pl. Fendl. 38. Engelm. Pl. Upp. Miss. 190. Porter, Hayd. Rep. 1870, 474.

L. laxiflorus. Hook. in Lond. Journ. Bot. 6. 215. Gray, Pl. Fendl. 38; Am. Journ. Sci. 2. 33. 411. Coulter, Hayd. Rep. 1872, 763.

L. ornatus. Torrey, Frem. Rep. 89, mostly.

L. laxiflorus, var. *tenellus*. Porter, Hayd. Rep. 1871, 480.

Var. **argophyllus.** Watson, Rev. Lup. 532. Porter, Fl. Col. 20.

L. ornatus. Torrey, Frem. Rep. 89, in part.

L. decumbens, var. *argophyllus*. Gray, Pl. Fendl. 37. Torrey, Pac. R. Rep. 4. 81. Durand, Fl. Utah, 163?

L. aridus. Dougl.; Lindl. Bot. Reg. 15, **t. 1242.** Hook. Fl. Bor.-Am. 1. 165. Don, Mill. 2. 367. Spach, Hist. Veg. 1. 352. Agardh, Syn. 31. Torr. & Gray, Fl. 1. 379. Eat. & Wr. 307. Walp. Rep. 1. 603. Dietr. 4. 942. Boland. Cat. 8. Watson, Rev. Lup. 533. Brew. & Wats. Bot. Calif. 1. 122.

Var. **Lobbii.** Watson, Rev. Lup. 533. Brew. & Wats. l. c.

Var. **Utahensis.** Watson, Rev. Lup. 534.

L. aridus? Watson, King's Rep. 5. 57, in part.

L. barbiger. Watson, Rev. Lup. 528.

L. brevicaulis. Watson, King's Rep. 5. 53, **t. 7**; Rev. Lup. 530. Parry, Am. Naturalist, 9. 270. Brew. & Wats. Bot. Calif. 1. 125.

L. pusillus. Anderson, Cat. Pl. Nev. 119, in part.

L. Breweri. Gray, Proc. Am. Acad. 6. 334. Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 58; Rev. Lup. 534. Brew. & Wats. Bot. Calif. 1. 122.

L. Burkei. Watson, Rev. 525. Brew. & Wats. Bot. Calif. 1. 118.

L. polyphyllus. Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 55. Porter, Hayd. Rep. 1871, 480. Coulter, same, 1872, 763.

L. —— ? Watson, King's Rep. 5. 58.

L. cæspitosus. Nutt.; Torr. & Gray, Fl. 1. 379. Walp. Rep. 1. 603. Dietr. 4. 942. Gray, Proc. Acad. Philad. 1863, 59. Porter, Hayd. Rep. 1871, 480; Fl. Col. 20. Coulter, Hayd. Rep. 1872, 763. Watson, Rev. Lup. 533. Rothrock, Pl. Wheeler, 37.

L. calcaratus. Kellogg, Proc. Calif. Acad. 2. 195, **fig. 60.** Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 56; Rev. Lup. 531. Brew. & Wats. l. c. 121.

L. decumbens, var. *argophyllus.* Torr. & Gray, Pac. R. Rep. 2. 121.

L. laxiflorus & *L. sulphureus.* Watson, King's Rep. 5. 55 & 57.

L. Chamissonis. Eschscholtz, Mem. Acad. Petersb. 10. 288 (Litt.-Ber. zu Linnæa, 1828, 151). Presl, Repert. Bot. 1. 198. Don, Mill. 2. 367. Agardh, Syn. 32. Hook. & Arn. Bot. Beechey, 336. Walp. Rep. 1. 603. Brew. & Wats. l. c. 117.

L. albifrons. Benth. Trans. Hort. Soc. Lond. 2 ser. 1. 410; Pl. Hartw. 303. Lindl. Bot. Reg. 19, **t. 1642** (Litt.-Ber. zu Linnæa, 1835, 30). Agardh, Syn. 33. Torr & Gray, Fl. 1. 380. Hook. & Arn. Bot. Beechey, 336. Walp. Rep. 1. 603. Dietr. 4. 942. Torrey, Pac. R. Rep. 4. 81; Mex. Bound. 57; Bot. Wilkes, 281. Newberry, Pac. R. Rep. 6. 70. Boland. Proc. Calif. Acad. 3. 79; Cat. 8. Watson, Rev. Lup. 523.

L. sericeus. Hook. & Arn. Bot. Beechey, 138.

L. ornatus. Torrey, Pac. R. Rep. 4. 81; Mex. Bound. 57. Boland. Cat. 8.

L. Douglasii & *L. littoralis.* Torrey, Mex. Bound. 57 & 58.

L. holosericeus. Gray, Proc. Am. Acad. 8. 379.

Var. **longifolius.** Watson, Bot. Calif. 1. 117.

L. rivularis. Torrey, Pac. R. Rep. 4. 81.

Var. **longebracteatus.** Watson, Bot. Calif. 1. 117.

L. macrocarpus. Torrey, Pac. R. Rep. 4. 81.

L. concinnus. Agardh, Syn. 6, **t. 1.** Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 372. Walp. Rep. 1. 596. Dietr. 4. 937. Gray, Ives's Rep. 9. Watson, Rev. Lup. 537. Brew. & Wats. Bot. Calif. 1. 124.

L. pusillus. Torrey, Mex. Bound. 57, in part.

Var. (?) **Arizonicus.** Watson, Rev. Lup. 537. Brew. & Wats. l. c.

L. sparsiflorus. Torrey, Pac. R. Rep. 4. 81, in part.

L. hirsutissimus. Gray, Ives's Rep. 9.

L. confertus. Kellogg, Proc. Calif. Acad. 2, 192, **fig. 59.** Watson, Rev. 530. Brew. & Wats. Bot. Calif. 1. 120.

L. Torreyi. Gray; Watson, King's Rep. 5. 58.

L. sellulus. Kellogg, Proc. Calif. Acad. 5. 36.

L. densiflorus. Bentham, Trans. Hort. Soc. Lond. 2. 1. 409. Lindl. Bot. Reg. 20, **t. 1689** (Litt.-Ber. zu Linnæa, 1835, 56). Torr. & Gray, Fl. 1. 371. Walp. Rep. 1. 595 & 605. Dietr. 4. 936 & 945. Torrey, Pac. R. Rep. 4. 81. Boland. Cat. 8. Watson, Rev. Lup. 538. Brew. & Wats. Bot. Calif. 1. 124.

L. Menziesii. Agardh, Syn. 2. Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 371. Walp. Rep. 1. 595; Ann. 7. 674. Benth. Pl. Hartw. 303. Hook. Bot. Mag. **t. 5019.** Journ. d'Hort. 1. 2, **t. 3.** Fl. Serres, 14. 175, **t. 1458.**

L. succulentus. Dougl.; Koch, Wochenschr. Gærtn. 4. 276; Ind. Sem. h. Berl. 1867, Appx. 11.

L. Menziesii, var. *aurea.* Kellogg, Proc. Calif. Acad. 5. 16.

L. diffusus. Nutt. Genera, 2. 93. Elliott, 2. 192. DC. Prodr. 2. 410. Don, Mill. 2. 369. Eat. & Wr. 307. Walp. Rep. 1. 605. Chapman, 89. Wood, Bot. & Fl. 90. Watson, Rev. Lup. 523.

L. villosus, var. *diffusus.* Torr. & Gray, Fl. 1. 382.

L. Douglasii. Agardh, Syn. 34. Hook. & Arn. Bot. Beechey, 336. Torr. & Gray, Fl. 1. 380. Walp. Rep. 1. 603. Dietr. 4. 943. Durand, Pl. Pratten. 86? Watson, Rev. Lup. 524. Brew. & Wats. Bot. Calif. 1. 117.

L. flexuosus. Lindl.; Agardh, Syn. 34. Torr. & Gray, Fl. 1. 381. Walp. Rep. 1. 603. Dietr. 4. 943. Cooper, Pac. R. Rep. 12. 59. Watson, Rev. Lup. 530.

L. gracilis. Agardh, Syn. 15, **t. 1.** Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 372. Walp. Rep. 1. 598. Dietr. 4. 936. Watson, Rev. Lup. 537. Brew. & Wats. Bot. Calif. 1. 124.

L. Grayi. Watson, Proc. Am. Acad. 11. 126. Brew. & Wats. Bot. Calif. 1. 119.

L. hirsutissimus. Benth. Trans. Hort. Soc. Lond. 2. 1. 409. Agardh, Syn. 4. Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 372. Walp. Rep. 1. 595. Dietr. 4. 936. Torrey, Pac. R. Rep. 7. 10; Mex. Bound. 57, in part. Boland. Cat. 8. Watson, Rev. Lup. 537. Brew. & Wats. Bot. Calif. 1. 124.

L. sparsiflorus. Torrey, Pac. R. Rep. 4. 81, in part.

L. holosericeus. Nutt.; Torr. & Gray, Fl. 1. 380. Walp. Rep. 1. 604. Dietr. 4. 943. Watson, Rev. Lup. 532; Pl. Wheeler, 7. Brew. & Wats. Bot. Calif. 1. 121.

L. ornatus or *argenteus.* Anderson, Cat. Pl. Nev. 119.

L. leucopsis & *L. meionanthus*, var. *heteranthus.* Watson, King's Rep. 5. 56.

L. flexuosus. Watson, l. c., in part, and var.

Var. **Utahensis.** Watson, Rev. Lup. 536.

L. albicaulis. Torrey, Stansb. Rep. 386. Durand, Fl. Utah, 163.

L. leucopsis, var. Watson, King's Rep. 5. 56.

L. Kingii. Watson, Rev. Lup. 534.

L. aridus. Watson, King's Rep. 5. 57, in part.

L. Sileri. Watson, Proc. Am. Acad. 10. 345; Am. Naturalist, 9. 270. Rothr. Pl. Wheeler, 37. Brandegee, Fl. S. W. Col. 234.

L. laxiflorus. Dougl.; Lindl. Bot. Reg. 14, **t. 1140.** Hook. Fl. Bor.-Am. 1. 164. Don, Mill. 2. 368. Agardh, Syn. 27. Spach, Hist. Veg. 1. 352. Torr. & Gray, Fl. 1. 377, excl. vars.; Pac. R. Rep. 2. 121? Eat. & Wr. 307. Walp. Rep. 1. 602. Dietr. 4. 941. Cooper, Pac. R. Rep. 12. 59? Gray, Proc. Am. Acad. 8. 379. Watson, Rev. Lup. 531; Pl. Wheeler, 7. Brew. & Wats. Bot. Calif. 1. 121.

L. arbustus. Dougl.; Lindl. Bot. Reg. 15, **t. 1230.** Hook. Fl. Bor.-Am. 1. 164. Don, Mill. 2. 368. Spach, Hist. Veg. 1. 351. Eat. & Wr. 306.

L. foliosus. Hook. in Lond. Journ. Bot. 6. 215.

? *L. decumbens.* Torrey, Pac. R. Rep. 4. 81.

? *L. caudatus.* Kellogg, Proc. Calif. Acad. 2. 108, **fig. 61.**

L. argenteus & *L. flexuosus* in part. Watson, King's Rep. 5. 55.

L. lepidus. Dougl.; Lindl. Bot. Reg. 14, **t. 1149.** Hook. Fl. Bor.-Am. 1. 163. Don, Mill. 2. 367. Spach, Hist. Veg. 1. 352. Agardh, Syn. 17. Lodd. Bot. Cab. **t. 1980.** Torr. & Gray, Fl. 1. 374. Eat. & Wr. 306. Walp. Rep. 1. 599. Dietr. 4. 939. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 58. Watson, Rev. 530. Torrey, Bot. Wilkes, 280. Brew. & Wats. Bot. Calif. 1. 120.

L. concinnus. Durand, Pl. Pratten. 86.

L. flexuosus. Watson, King's Rep. 5. 55, in part.

L. leptophyllus. Benth. Trans. Hort. Soc. Lond. 2. 1. 409. Lindl. Bot. Reg. 20, **t. 1670.** Agardh, Syn. 11. Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 373. Walp. Rep. 1. 597. Dietr. 4. 938. Torrey, Pac. R. Rep. 4. 81. Gray, Proc. Bost. Soc. Nat. Hist. 7. 146. Watson, Rev. Lup. 536. Brew. & Wats. Bot. Calif. 1. 123.

L. leucophyllus. Dougl.; Lindl. Bot. Reg. 13, **t. 1124.** Hook. Fl. Bor.-Am. 1. 165. Don, Mill. 2. 367. Spach, Hist. Veg. 1. 348. Agardh, Syn. 31. Torr. & Gray, Fl. 1. 379. Eat. & Wr. 307. Torrey, Frem. Rep. 89; Bot. Wilkes, 280. Dietr. 4. 942. Gray, Pl. Fendl. 38?; Proc. Am. Acad. 8. 379. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 52. Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 57; Rev. Lup. 529; Pl. Wheeler, 7. Porter, Hayd. Rep. 1871, 480. Coulter, same, 1872, 763. Brew. & Wats. Bot. Calif. 1. 119.

L. plumosus. Dougl.; Lindl. Bot. Reg. 15, **t. 1217.** Hook. Fl. Bor.-Am. 1. 165. Don, Mill. 2. 367. Spach, Hist. Veg. 1. 348. Agardh, Syn. 32. Hook. & Arn. Bot. Beechey, 336. Torr. & Gray, Fl. 1. 380. Eat. & Wr. 307. Walp. Rep. 1. 603. Dietr. 4. 942.

L. albicaulis. Hook. in Lond. Journ. Bot. 6. 216, in part.

L. littoralis. Dougl.; Lindl. Bot. Reg. 14, **t. 1198.** Graham, Edinb. Phil. Journ. 1829, 185. Hook. Bot. Mag. **t. 2952**; Fl. Bor.-Am. 1. 164. Don, Mill. 2. 367. Agardh, Syn. 36. Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 381. Eat. & Wr. 307. Walp. Rep. 1. 604. Dietr. 4. 943. Cooper, Pac. R. Rep. 12. 58. Boland. Cat. 8. Watson, Rev. Lup. 526. Torrey, Bot. Wilkes, 281. Brew. & Wats. Bot. Calif. 1. 118.

L. Nutkatensis, var. *fruticosus.* Sims, Bot. Mag. **t. 2136.**

L. versicolor. Lindl. Bot. Reg. 23, **t. 1979**, not Sweet. Spach, Hist. Veg. 1. 351. Maund, Bot. Gard. 13, **t. 615.** Torr. & Gray, Fl. 1. 376. Walp. Rep. 1. 607. Dietr. 4. 940.

L. Nutkatensis, var. *glaber.* Hook. Fl. Bor.-Am. 1. 163.

L. Nutkatensis. Cooper, Pac. R. Rep. 12. 58.

L. luteolus. Kellogg, Proc. Calif. Acad. 5. 38. Brew. & Wats. Bot. Calif. 1. 125.

L. Bridgesii. Gray; Watson, Rev. Lup. 538.

L. Lyallii. Gray, Proc. Am. Acad. 6. 334. Watson, Rev. Lup. 534. Brew. & Wats. Bot. Calif. 1. 122.

Var. **Danaus.** Watson, Rev. Lup. 534. Brew. & Wats. l. c.

L. meionanthus. Gray, Proc. Am. Acad. 6. 522. Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 56; Rev. Lup. 533. Brew. & Wats. Bot. Calif. 1. 121.

L. micranthus. Dougl.; Lindl. Bot. Reg. 15, **t. 1251.** Hook. Fl. Bor.-Am. 1. 162. Don, Mill. 2. 366. Spach, Hist. Veg. 1. 345. Agardh, Syn. 14. Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 373. Eat. & Wr. 307. Walp. Rep. 1. 598. Dietr. 4. 938. Newberry, Pac. R. Rep. 6. 70. Cooper, same, 12. 58. Torrey, Mex. Bound. 57; Bot. Wilkes, 279. Boland. Cat. 8. Watson, Rev. Lup. 535. Brew. & Wats. Bot. Calif. 1. 123.

L. nanus, var. Benth. Pl. Hartw. 303.

L. bicolor. Torrey, Mex. Bound. 57. Gray, Proc. Am. Acad. 8. 379.

Var. **bicolor.** Watson, Rev. Lup. 536. Brew. & Wats. Bot. Calif. 1. 123.

L. bicolor. Lindl. Bot. Reg. 13, **t. 1109.** Hook. Fl. Bor.-Am. 1. 162. Don, Mill. 2. 366. Spach, Hist. Veg. 1. 344. Agardh, Syn. 14. Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 373. Eat. & Wr. 307. Walp. Rep. 1. 598. Dietr. 4. 938. Torrey, Pac. R. Rep. 4. 81, in part. Newberry, same, 6. 70.

L. gracilis. Durand & Hilgard, Pac. R. Rep. 5. 7, in part.

Var. **microphyllus.** Watson, Rev. Lup. 535. Brew. & Wats. Bot. Calif. 1. 123.

Var. **trifidus.** Watson, l. c. Brew. & Wats. l. c.

L. bicolor. Torrey, Pac. R. Rep. 4. 81, in part.

L. microcarpus. Sims, Bot. Mag. **t. 2413.** DC. Prodr. 2. 408. Don, Mill. 2. 366. Agardh, Syn. 2. Hook. & Arn. Bot. Beechey, 21 & 335. Torr. & Gray, Fl. 1. 371. Walp. Rep. 1. 595. Dietr. 4. 936. Gray, Proc. Bost. Soc. Nat. Hist. 7. 146. Watson, Rev. Lup. 538. Torrey, Bot. Wilkes, 279. Brew. & Wats. l. c. 124.

L. densiflorus. Agardh, Syn. 3. Benth. Pl. Hartw. 303. Hook. & Arn. Bot. Beechey, 335.

L. Menziesii. Torrey, Mex. Bound. 57.

L. palustris & *lacteus.* Kellogg, Proc. Calif. Acad. 5. 16 & 37.

L. minimus. Dougl.; Hook. Fl. Bor.-Am. 1. 163. Don, Mill. 2. 367 & 476. Agardh, Syn. 16. Torr. & Gray, Fl. 1. 374. Eat. & Wr. 306. Walp. Rep. 1. 598. Dietr. 4. 939. Gray, Proc. Am. Acad. 6. 335 & 8. 379. Watson, Rev. Lup. 534. Torrey, Bot. Wilkes, 279. Brew. & Wats. Bot. Calif. 1. 122.

L. nanus. Dougl.; Benth. Trans. Hort. Soc. Lond. 2. 1. 409, **t. 14,** & Pl. Hartw. 303. Don, in Sweet's Brit. Fl. Gard. 2 ser. **t. 257.** Agardh, Syn. 11. Lindl. Bot. Reg. 20, **t. 1705.** Maund, Bot. Gard. 13, **t. 578.** Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 373. Walp. Rep. 1. 597. Dietr. 4. 938. Durand, Pl. Pratten. 86. Torrey, Pac. R. Rep. 4. 81. Newberry, same, 6. 70. Boland. Cat. 8. Watson, Rev. Lup. 535. Brew. & Wats. Bot. Calif. 1. 123.

L. affinis. Agardh, Syn. 20, in part. Torrey, Mex. Bound. 57, in part.

L. nanus, var. *latifolius.* Benth. Pl. Hartw. 303. Torrey, Pac. R. Rep. 4. 81.

L. sparsiflorus. Torrey, Pac. R. Rep. 5. 360. Gray, Ives's Rep. 9.

L. bicolor. Gray, Proc. Bost. Soc. Nat. Hist. 7. 146.

L. Nootkatensis. Donn, Cat. Hort. Cant. Sims, Bot. Mag. **t. 1311.** Ait. f. Hort. Kew. 4. 286. Pursh, 467. Poir. Suppl. 5. 722. Lodd. Bot. Cab. **t. 879.** DC. Prodr. 2. 408. Hook. Fl. Bor.-Am. 1. 163, excl. var. Cham. in Linnæa, 6. 548. Don, Mill. 2. 366. Spach, Hist. Veg. 1. 351. Agardh, Syn. 21. Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 375. Eat. & Wr. 306. Ledeb. Fl. Ross. 1. 512. Dietr. 4. 940. Regel, Ind. Sem. h. Petrop. 1857 (Walp. Ann. 7. 674). Rothr. Fl. Alask. 415. Watson, Rev. Lup. 524.

L. variegatus. Poir. Suppl. 3. 520.

L. Nutkanus. Spreng. Syst. 3. 227.

L. macrorrhizos. Georgi, Beschr. Ross. 4. 1162.

L. Blaschkeanus. Fisch. & Mey.; C. A. Meyer, Ind. Sem. h. Petr. 11, Suppl. 57.

Var. **Unalaskensis.** Watson, Rev. Lup. 524.

L. regius. Rudolphi.

L. Nuttallii. Watson, Rev. Lup. 526.

L. gracilis. Nutt. in Journ. Philad. Acad. 7. 115, not Agardh.

L. perennis, var. Torr. & Gray, Fl. 1. 376. Chapman, 89.

L. onustus. Watson, Proc. Am. Acad. 11. 127. Brew. & Wats. Bot. Calif. 1. 120.

L. ornatus. Dougl.; Lindl. Bot. Reg. 14, **t. 1216.** Hook. Fl. Bor.-Am. 1. 164. Don, Mill. 2. 367. Sweet, Brit. Fl. Gard. 2. ser. **t. 212.** Maund, Bot. Gard. 10, **t. 438.** Spach, Hist. Veg. 1. 349. Agardh, Syn. 28. Torr. & Gray, Fl. 1. 378. Eat. & Wr. 306. Walp. Rep. 1. 602. Dietr. 4. 942. Gray, Proc. Am. Acad. 8. 379. Watson, Rev. Lup. 528. Porter, Fl. Col. 19. Torrey, Bot. Wilkes, 280. Brew. & Wats. Bot. Calif. 1. 119.

L. leucopsis. Agardh, Syn. 29. Torr. & Gray, Fl. 1. 378. Walp. Rep. 1. 602. Dietr. 4. 942.

L. argenteus. Agardh, Syn. 27. Torr. & Gray, Fl. 1. 377, in part. Walp. Rep. 1. 602. Dietr. 4. 942.

L. sericeus. Cooper, Pac. R. Rep. 12. 52.

Var. (?) **glabratus.** Watson, Rev. Lup. 528. Porter, Fl. Col. 19.

L. ornatus. Torrey, Frem. Rep. 89, in part. Engelm. Pl. Upp. Miss. 190. Gray, Proc. Acad. Philad. 1863, 59. Porter, Hayd. Rep. 1870, 474; 1871, 480. Coulter, same, 1872, 763.

L. Palmeri. Watson, Rev. Lup. 530. Brew. & Wats. Bot. Calif. 1. 120.

L. parviflorus. Nutt.; Hook. & Arn. Bot. Beechey, 336. Torr. & Gray, Fl. 1. 375. Walp. Rep. 1. 599. Dietr. 4. 939. Porter, Hayd. Rep. 1870, 474; Fl. Col. 20. Watson, King's Rep. 5. 54; Rev. Lup. 531; Pl. Wheeler, 7. Gray, Proc. Am. Acad. 8. 379. Coulter, Hayd. Rep. 1872, 763. Brew. & Wats. Bot. Calif. 1. 120.

L. perennis. Linn. Spec. 721. Hill, Veg. Syst. 20, **t. 54, fig. 1.** Walter, 180. Desrous. in Lam. Dict. 3. 621; Ill. **t. 616.** Ait. Hort. Kew. 2. 28. Curtis, Bot. Mag. **t. 202.** Willd. Spec. 3. 1022. Michx. Fl. 2. 55. Persoon, 2. 293. Pursh, 467. Bigel. Fl. Bost. 267. Barton, Fl. N. Am. 2. 4, **t. 38.** Elliott, 2. 191. DC. Prodr. 2. 408. Spreng. Syst. 3. 227. Torrey, Compend. 263. Hook. Fl. Bor.-Am. 1. 163, in part. Maund, Bot. Gard. 7, **t. 310.** Don, Mill. 2. 306. Beck, Bot. 92. Spach, Hist. Veg. 1. 350. Darling. Fl. Cestr. 431. Torr. & Gray, Fl. 1. 376, in part. Eat. & Wr. 306. Walp. Rep. 1. 601. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 190. Gray, Pac. R. Rep. 12. 42; Manual, 126. Chapman, 89. Watson, Rev. Lup. 526.

Var. **occidentalis.** Watson, Rev. Lup. 526.

L. polyphyllus. Lindl. Bot. Reg. 13, **t. 1096,** & 16, **t. 1377.** Hook. Fl. Bor.-Am. 1. 164; Lond. Journ. Bot. 6. 216. Maund, Bot. Gard. 7, **t. 291.** Don, Mill. 2. 306. Spach, Hist. Veg. 1. 347. Reichenb. Fl. Exot. **t. 176.** Agardh, Syn. 17. Hook. & Arn. Bot. Beechey, 138. Torr. & Gray, Fl. 1. 375. Eat. & Wr. 306. Walp. Rep. 1. 599. Dietr. 4. 939. Newberry, Pac. R. Rep. 6. 70. Cooper, same, 12. 58. Regel, Ind. Sem. h. Petrop. 1866, 108. Boland. Cat. 8. Gray, Proc. Am. Acad. 8. 379. Watson, Rev. Lup. 524. Torrey, Bot. Wilkes, 280. Brew. & Wats. Bot. Calif. 1. 117.

L. grandifolius. Lindl.; Agardh, Syn. 18. Hook. & Arn. Bot. Beechey, 335. Walp. Rep. 1. 599.

L. macrophyllus. Benth.; Don, Sweet's Brit. Fl. Gard. 2 ser. **t. 356** & Addenda. Walp. Rep. 1. 599.

L. pusillus. Pursh, 468. Poir. Suppl. 5. 722. Bradbury, Cat. 337. Nutt. Genera, 2. 93. James, Cat. 186. DC. Prodr. 2. 408. Spreng. Syst. 3. 228. Torrey, Ann. Lyc. N. Y. 2. 191; Nicol. Rep. 149; Sitgr. Rep. 158; Mex. Bound. 57, in part; Bot. Wilkes, 279. Hook. Fl. Bor.-Am. 1. 162; Lond. Journ. Bot. 6. 216. Don, Mill. 2. 306. Agardh, Syn. 15. Torr. & Gray, Fl. 1. 374. Eat. & Wr. 307. Walp. Rep. 1. 598. Gray, Pl. Wright. 2. 49; Pl. Thurb. 300; Ives's Rep. 9; Pac. R. Rep. 12. 42; Proc. Acad. Philad. 1863, 59. Engelm. Pl. Upp. Miss. 190. Anderson, Cat. Pl. Nev. 119, in part. Porter, Hayd. Rep. 1870, 474; 1871, 480; Fl. Col. 20. Watson, King's Rep. 5. 53; Rev. Lup. 538. Coulter, Hayd. Rep. 1872, 763. Rothr. Pl. Wheeler, 37. Parry, Am. Naturalist, 9. 270. Brew. & Wats. Bot. Calif. 1. 125.

L. rivularis. Dougl.; Lindl. Bot. Reg. 19, **t. 1595** (Litt.-Ber. zu Linnæa, 1835, 16). Spach, Hist. Veg. 1. 353. Walp. Rep. 1. 601. Watson, Rev. Lup. 525. Torrey, Bot. Wilkes, 280. Brew. & Wats. Bot. Calif. 1. 118.

L. cytisoides. Agardh, Syn. 18. Torr. & Gray, Fl. 1. 375. Walp. Rep. 1. 599. Torrey, Mex. Bound. 57, in part.

L. latifolius? Gray, Proc. Am. Acad. 8. 379.

Var. **latifolius.** Watson, Rev. Lup. 525. Brew. & Wats. l. c.

L. latifolius. Agardh, Syn. 18. Lindl. Bot. Reg. 22, **t. 1891.** Hook. & Arn. Bot. Beechey, 335. Torr. & Gray, Fl. 1. 375. Walp. Rep. 1. 599. Dietr. 4. 939.

Durand, Pl. Pratten. 86? Torrey, Pac. R. Rep. 4. 81. Newberry, same, 6. 70? Boland. Cat. 8.

L. cytisoides. Torrey, Mex. Bound. 57, in part.

L. Sabinii. Dougl.; Hook. Fl. Bor.-Am. 1. 166. Torr. & Gray, Fl. 1. 378. Eat. & Wr. 307. Walp. Rep. 1. 602. Dietr. 4. 942. Watson, Rev. Lup. 527. Brew. & Wats. Bot. Calif. 1. 118.

L. Sabinianus. Dougl.; Lindl. Bot. Reg. 17, **t. 1435.** Don, Mill. 2. 367. Spach, Hist. Veg. 1. 349. Agardh, Syn. 30.

L. sericeus. Pursh, 468. Poir. Suppl. 5. 722. DC. Prodr. 2. 408. Spreng. Syst. 3. 227. Hook. Fl. Bor.-Am. 1. 164. Don, Mill. 2. 367. Agardh, Syn. 31. Hook. & Arn. Bot. Beechey, 336. Torr. & Gray, Fl. 1. 379, in part. Eat. & Wr. 306. Walp. Rep. 1. 603. Benth. Bot. Sulph. 11. Dietr. 4. 942. Watson, King's Rep. 5. 57; Rev. Lup. 529. Coulter, Hayd. Rep. 1872, 763? Torrey, Bot. Wilkes, 281. Brew. & Wats. Bot. Calif. 1. 119.

L. ornatus. Nutt. in Journ. Acad. Philad. 7. 20.

L. albicaulis. Hook. in Lond. Journ. Bot. 6. 216, in part.

L. affinis. Torr. & Gray, Pac. R. Rep. 2. 121.

L. flexuosus. Watson, King's Rep. 5. 55, in part.

L. Sitgreavesii. Watson, Rev. Lup. 527; Pl. Wheeler, 7. Brandegee, Fl. S. W. Col. 234. Brew. & Wats. Bot. Calif. 1. 119.

L. Mexicanus. Gray, Pl. Wright. 2. 49, at least in part. Torrey, Mex. Bound. 57.

L. sparsiflorus. Benth. Pl. Hartw. 303. Walp. Ann. 2. 319. Torrey, Mex. Bound. 57. Watson, Rev. 536. Brew. & Wats. Bot. Calif. 1. 123.

L. gracilis. Durand & Hilgard, Pac. R. Rep. 5. 7, in part.

L. Stiveri. Kellogg, Proc. Calif. Acad. 2. 192, **fig. 58.** Watson, Rev. Lup. 537. Brew. & Wats. Bot. Calif. 1. 123.

L. subcarnosus. Hook. Bot. Mag. **t. 3467.** Torr. & Gray, Fl. 1. 372. Walp. Rep. 1. 596. Dietr. 4. 937. Scheele, Roem. Texas, 428. Gray, Pl. Wright. 1. 54; Hall's Pl. Texas, 7. Torrey, Mex. Bound. 57. Watson, Rev. Lup. 536.

L. bimaculatus. Hook.; Don, Sweet's Brit. Fl. Gard. 2 ser. **t. 314.** Walp. Rep. 1. 596.

L. Texensis. Hook. Bot. Mag. **t. 3492.** Torr. & Gray, Fl. 1. 372. Walp. Rep. 1. 596. Engelm. & Gray, Pl. Lindh. 34. Dietr. 4. 937. Scheele, Roem. Texas, 428. Gray, Pl. Lindh. 177.

L. sulphureus. Dougl.; Hook. Fl. Bor.-Am. 1. 166. Don, Mill. 2. 367. Agardh, Syn. 30. Torr. & Gray, Fl. 1. 378. Eat. & Wr. 307. Walp. Rep. 1. 602. Dietr. 4. 942. Watson, Rev. Lup. 528.

? *L. sericeus.* Torr. & Gray, Fl. 1. 379, in part.

L. truncatus. Nutt.; Hook. & Arn. Bot. Beechey, 336. Torr. & Gray, Fl. 1. 373. Walp. Rep. 1. 597. Dietr. 4. 938. Torrey, Mex. Bound. 57. Boland. Cat. 8. Watson, Rev. Lup. 536. Brew. & Wats. Bot. Calif. 1. 123.

L. uncialis. Watson, King's Rep. 5. 54, **t. 7;** Rev. Lup. 530. Brew. & Wats. Bot. Calif. 1. 125.

L. villosus. Willd. Spec. 3. 1020. Persoon, 2. 294. Ait. f. Hort. Kew. 4. 287. Poir. Suppl. 3. 519. Pursh, 486, **t. 21.** Nutt. Genera, 2. 93. Elliott, 2. 191. DC. Prodr. 2. 410. Spreng. Syst. 3. 228. Don, Mill. 2. 369. Agardh, Syn. 41. Torr. & Gray, Fl. 1. 382. Eat. & Wr. 307. Walp. Rep. 1. 605. Chapman, 89. Wood, Bot. & Fl. 90. Watson, Rev. Lup. 522.

L. pilosus. Walter, 180. Michx. Fl. 2. 56.
L. integrifolius. Desrous. in Lam. Dict. 3. 627.

L. Wyethii. Watson, Rev. Lup. 525.
L. sericeus. Nutt. in Journ. Acad. Philad. 7. 19.

L. albifrons; Chamissonis.
albicaulis; holosericeus, leucophyllus, sericeus.
argenteus; laxiflorus, ornatus.
arbustus; laxiflorus.
aridus; Kingii.
bicolor; micranthus, nanus.
bimaculatus; subcarnosus.
Blaschkeanus; Nootkatensis.
Bridgesii; luteolus.
caudatus; laxiflorus.
cervinus; affinis.
concinnus; lepidus.
cytisoides; rivularis.
decumbens; argenteus, calcaratus, laxiflorus.
densiflorus; microcarpus.
Douglasii; Chamissonis, ornatus.
flexuosus; holosericeus, laxiflorus, lepidus, sericeus.
foliosus; albicaulis, laxiflorus.
gracilis; micranthus, Nuttallii, sparsiflorus.
grandifolius; polyphyllus.
hirsutissimus; concinnus.
holosericeus; Chamissonis.
lacteus; microcarpus.
integrifolius; villosus.
latifolius; rivularis.
laxiflorus; albicaulis, argenteus, calcaratus.
leucopsis; holosericeus, ornatus.
littoralis; Chamissonis.
L. macrocarpus; arboreus, Chamissonis.
macrophyllus; polyphyllus.
macrorrhizos; Nootkatensis.
meionanthus; holosericeus.
Menziesii; densiflorus, microcarpus.
Mexicanus; albicaulis, Sitgreavesii.
nanus; micranthus.
Nootkatensis; littoralis.
ornatus; argenteus, Chamissonis, holosericeus, sericeus.
palustris; microcarpus.
perennis; arcticus, Nuttallii.
pilosus; villosus.
plumosus; leucophyllus.
polyphyllus; Burkei.
pusillus; brevicaulis, concinnus.
regius; Nootkatensis.
rivularis; arboreus, Chamissonis.
sellulus; confertus.
sericeus; arboreus, Chamissonis, ornatus, sulphureus, Wyethii.
Sileri; Kingii.
sparsiflorus; concinnus, hirsutissimus, nanus.
succulentus; densiflorus.
sulphureus; calcaratus.
tenellus; argenteus.
Texensis; subcarnosus.
Torreyi; confertus.
variegatus; Nootkatensis.
versicolor; littoralis.
villosus; diffusus.
——?; Burkei.

LYSILOMA latisiliqua. Benth. Rev. Mim. in Trans. Linn. Soc. 30. 34 with syn.
Acacia latisiliqua. Willd. Spec. 4. 1067. Nutt. Sylva, 2. 34, **t. 53.**
L. Bahamensis. Benth. in Hook. Lond. Journ. 3. 82.
Acacia Bahamensis. Griseb. Fl. Brit. W. Ind. 221.

MEDICAGO DENTICULATA, Willd. Hook. Comp. Bot. Mag. 1. 21. Hook. & Arn. Bot. Beechey, 137. Torr. & Gray, Fl. 1. 321. Eat. & Wr. 316. Torrey, Pac. R. Rep. 4. 79 & 7. 10; Mex. Bound. 53. Smith, Proc. Acad. Philad. 1867. Gray, Manual, 128; Hall's Pl. Texas, 7. Boland. Cat. 9. Brew. & Wats. Bot. Calif. 1. 133.

M. maculata. Hook. & Arn. Bot. Beechey, 330.

M. INTERTEXTA, Willd. Pursh, 400. Elliott, 2. 248. Beck, Bot. 78. Torr. & Gray, Fl. 1. 322. Eat. & Wr. 315.

M. polymorpha, var. *intertexta.* Walter, 186.

M. LUPULINA, Linn. Walter, 186. Michx. Fl. 2. 60. Pursh, 400. Bigel. Fl. Bost. 278. Elliott, 2. 247. Torrey, Compend. 272; Fl. N. Y. 1. 172. Hook. Fl. Bor.-Am. 1. 129; Comp. Bot. Mag. 1. 21. Beck, Bot. 78. Torr. & Gray, Fl. 1. 322. Eat. & Wr. 315. Chapman, 90. Gray, Manual, 128. Brew. & Wats. Bot. Calif. 1. 133.

M. MACULATA, Willd. Hook. Comp. Bot. Mag. 1. 21. Torr. & Gray, Fl. 1. 321. Eat. & Wr. 315. Smith, Proc. Acad. Philad. 1867, 18. Gray, Manual, 128.

M. NIGRA, Willd. Elliott, 2. 248. Torr. & Gray, Fl. 1. 322.

M. SATIVA, Linn. Darling. Fl. Cr. 405. Torr. & Gray, Fl. 1. 321. Eat. & Wr. 315. Torrey, Fl. N. Y. 1. 171; Mex. Bound. 53. Gray, Pl. Fendl. 33; Pl. Wright. 1. 50 & 2. 41; Manual, 128. Cooper, Pac. R. Rep. 12. 58. Boland. Cat. 9. Watson, King's Rep. 5. 58. Coulter, Hayd. Rep. 1872, 763. Brew. & Wats. Bot. Calif. 1. 132.

MELILOTUS ALBA, Lam. Eat. & Wr. 317. Chapman, 90. Gray, Manual, 128. Watson, King's Rep. 5. 58; Pl. Wheeler, 7. Brew. & Wats. Bot. Calif. 1. 132.

M. officinalis. Pursh, 477. Hook. Fl. Bor.-Am. 1. 130.

M. officinalis, var. *alba.* Nutt. Genera, 2. 104.

M. leucantha, Koch. Beck, Bot. 78. Torr. & Gray, Fl. 1. 321. Torrey, Fl. N. Y. 1. 171. Gray, Manual, 1 ed. 108.

M. INDICA, All. Benth. in Mart. Fl. Bras. 15². 34.

M. parviflora, Desf. Hook. Comp. Bot. Mag. 1. 22. Hook. & Arn. Bot. Beechey, 137. Torr. & Gray, Fl. 1. 321. Eat. & Wr. 317. Gray, Pl. Fendl. 33; Pl. Wright. 2. 41. Torrey, Pac. R. Rep. 4. 79 & 7. 9; Mex. Bound. 54; Bot. Wilkes, 272. Cooper, Pac. R. Rep. 12. 58. Smith, Proc. Acad. Philad. 1867, 18. Boland. Cat. 9. Watson, King's Rep. 5. 58. Brew. & Wats. Bot. Calif. 1. 132.

M. occidentalis. Nutt.; Torr. & Gray, Fl. 1. 321. Eat. & Wr. 317.

M. OFFICINALIS, Willd. Elliott, 2. 199. Torrey, Compend. 264; Fl. N. Y. 1. 170. Beck, Bot. 78. Torr. & Gray, Fl. 1. 320. Chapman, 90. Gray, Manual, 128. Brew. & Wats. Bot. Calif. 1. 132.

Trifolium officinale, Linn. Bigel. Fl. Bost. 160.

M. vulgaris. Eat. & Wr. 317.

MIMOSA acanthocarpa. Benth. in Hook. Journ. Bot. 4. 400; Rev. Mim. 428, with syn.

M. biuncifera. Torrey, Mex. Bound. 61, in part.

M. Berlandieri. Gray in Torrey, Mex. Bound. 61. Walp. Ann. 7. 829. Benth. Rev. Mim. in Trans. Linn. Soc. 30. 423.

M. biuncifera. Benth. Pl. Hartw. 12; Hook. Journ. Bot. 4. 400; Rev. Mim. 428. Walp. Rep. 1. 881. Gray, Pl. Wright. 1. 61 & 2. 51. Torrey, Mex. Bound. 61, in part. Watson, Pl. Wheeler, 8.

M. borealis. Gray, Pl. Fendl. 39; Pl. Wright. 1. 61 & 2. 51. Walp. Ann. 2. 451. Torr. & Gray, Pac. R. Rep. 2. 164. Torrey, Mex. Bound. 60. Benth. Rev. Mim. 426, **t. 66, fig.** Watson, Pl. Wheeler, 8.

Var. (?) **Texana.** Gray, Pl. Lindh. 182; Pl. Wright. 1. 61. Benth. l. c. 426.

M. dysocarpa. Benth. in Gray, Pl. Wright. 1. 62; Rev. Mim. 414, **t. 66, fig.** Gray, Pl. Wright. 2. 51. Walp. Ann. 4. 616. Torrey, Mex. Bound. 60.

M. Emoryana. Benth. Rev. Mim. 426.

M. flexuosa. Benth. in Gray, Pl. Wright. 1. 62; Rev. Mim. 428. Gray, Pl. Wright. 2. 51. Walp. Ann. 4. 616. Torrey, Mex. Bound. 61.

M. fragrans. Gray, Pl. Lindh. 182; Pl. Wright. 1. 61 & 2. 51; Hall's Pl. Texas, 8. Walp. Ann. 2. 451. Torrey, Mex. Bound. 60. Benth. Rev. Mim. 426.

M. Grahami. Gray, Pl. Wright. 2. 52. Walp. Ann. 4. 615. Seem. Bot. Herald, 282. Benth. Rev. Mim. 428.

M. Lindheimeri. Gray, Pl. Lindh. 181; Pl. Wright. 2. 51. Walp. Ann. 2. 450. Torrey, Mex. Bound. 60. Benth. Rev. Mim. 429.

M. malacophylla. Gray, Pl. Lindh. 182; Pl. Wright. 1. 62. Walp. Ann. 2. 451. Torrey, Mex. Bound. 60. Benth. Rev. Mim. 423.

Var. **glabrata.** Benth. Rev. Mim. 423.

Var. *glabra.* Gray; Torrey, Mex. Bound. 61.

M. PUDICA, Linn. Chapman, 116.

M. strigillosa. Torr. & Gray, Fl. 1. 399. Walp. Rep. 1. 879. Benth. in Hook. Journ. Bot. 4. 402; Rev. Mim. 436. Dietr. 4. 472. Torrey, Mex. Bound. 61. Chapman, 115. Wood, Bot. & Fl. 82. Gray, Hall's Pl. Texas, 7.

M. Wrightii. Gray, Pl. Wright. 2. 52. Walp. Ann. 4. 615. Benth. l. c. 417.

M. zygophylla. Benth. in Gray, Pl. Wright. 1. 61; Rev. Mim. 425. Walp. Ann. 4. 616.

M. biuncifera; acanthocarpa.
calcarea; Prosopis cinerascens.
contortuplicata; Desmanthus brachylobus.
filicioides; Acacia filicina.
glandulosa; Desmanthus brachylobus.
M. horridula; Schrankia uncinata.
Illinoensis; Desmanthus brachylobus.
Rameriana; Schrankia platycarpa.
virgata; Neptunia lutea.

NEPTUNIA lutea. Benth. in Hook. Journ. Bot. 4. 356; Rev. Mim. in Trans. Linn. Soc. 30. 384. Walp. Rep. 1. 863. Engelm. & Gray, Pl. Lindh. 8. Gray, Pl. Wright. 1. 61; Hall's Pl. Texas, 8. Torrey, Mex. Bound. 60, in part. Chapman. 117. Wood, Bot. & Fl. 82.

Mimosa virgata. Bartram, Trav. 421.

Acacia lutea. Leavenworth, Am. Journ. Sci. 1. 7. 61. Hook. Comp. Bot. Mag. 1. 24. Raf. New Flora, 1. 41. Torr. & Gray, Fl. 1. 403. Eat. & Wr. 111. Torrey, Marcy's Rep. 285.

Darlingtonia virgata. Raf. Fl. Lud. 444; New Flora, 43.

N. oleracea. Lour. Fl. Cochinch. 654. Griseb. Fl. Brit. W. Ind. 217. Benth. Rev. Mim. 383, with syn.

N. pubescens. Benth. in Lond. Journ. Bot. 4. 356; Rev. Mim. 384.

N. lutea. Torrey, Mex. Bound. 60, in part.

N. tenuis. Benth. ll. cc. 355 & 384. Walp. Rep. 1. 863.

Desmanthus lacustris. Torr. & Gray, Fl. 1. 402. Young, Fl. Texas, 249.

OLNEYA Tesota. Gray, Pl. Thurb. 328 (Regensb. Flora, 38. 588); Ives's Rep. 11. Torrey, Pac. R. Rep. 4. 11, 21 & 82; same, 7. 10, t. **5**; Mex. Bound. 58. Brew. & Wats. Bot. Calif. 1. 157.

Tesota ——. Muller in Walp. Ann. 4. 587.

OROBUS. See under *Lathyrus*.

O. Californicus; Lathyrus venosus.
diffusus; Vicia Americana.
dispar; Astragalus multiflorus.
dissitifolius; Vicia Americana.
O. longifolius; Astragalus pictus.
Muhlenbergii; Lathyrus venosus.
myrtifolius; Lathyrus paluster.

OXYTROPIS campestris. DC. Astrag. 74, with syn. See syn. also in Ledeb. Fl. Ross. 1. 591; Hook. f. Arct. Pl. 289 & 324.—Richard. in Journ. Frankl. 17. Hook. Fl. Bor.-Am. 1. 147. Don, Mill. 2. 251, **fig. 40.** Cham. in Linnæa, 6. 546. Torr. & Gray, Fl. 1. 340. Eat. & Wr. 337. Walp. Rep. 1. 693. Ruprecht, Beitr. Pfl. Russ. 2. 30. Seem. Bot. Herald, 28 & 51. Hook. f. in Journ. Linn. Soc. 1. 116, 121, 124 & 5. 83. Dickie, same, 3. 110. Regel. & Til. in Fl. Ajan. 77. Pl. Bourgeau, 256. Rothr. Fl. Alask. 445. Gray, Proc. Am. Acad. 6. 235; Manual, 133. Matthew, Pl. Acad. 15. Porter, Fl. Col. 30. Parry, Am. Naturalist, 9. 270.

O. borealis. DC. Prodr. 2. 275. Hook. Fl. Bor.-Am. 1. 145. Don, Mill. 2. 249. Hook. & Arn. Bot. Beechey, 122. Torr. & Gray, Fl. 1. 338. Eat. & Wr. 338. Trautv. & Meyer, Fl. Ochot. 26. Dietr. 4. 1069. Seem. Bot. Herald, 28.

Var. **viscida.** Watson, King's Rep. 5. 77.

O. viscida. Nutt.; Torr. & Gray, Fl. 1. 341. Eat. & Wr. 338. Walp. Rep. 1. 693. Dietr. 4. 1068. Rothr. Pl. Wheeler, 37.

O. campestris? Pl. Bourgeau, 256.

Var. **speciosa.** Torr. & Gray, Fl. 1. 341. Gray, Pl. Fendl. 36.

O. deflexa. DC. Astrag. 96; Prodr. 2. 280, with syn. Richard. Journ. Frankl. 17. Hook. Fl. Bor.-Am. 1. 148; Lond. Journ. Bot. 6. 212. Don, Mill. 2. 253. Torr. & Gray, Fl. 1. 342. Eat. & Wr. 338. Hook. f. Journ. Linn. Soc. 1. 124; Arct. Pl. 289. Gray, Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 236. Pl. Bourgeau, 255. Porter, Hayd. Rep. 1870, 475; Fl. Col. 31. Rothr. Pl. Wheeler, 36.

Astragalus deflexus. Pall. Act. Petrop. 1779, 260, **t. 15.** L'Her. Stirp. Nov. 167, t. **80.**

Astragalus hians. Jacq. Icon. Rar. **t. 252.**

Astragalus retroflexus. Pall. Astrag. **t. 27.**

O. foliolosa. Hook. Fl. Bor.-Am. 1. 146. Don, Mill. 2. 471. Torr. & Gray, Fl. 1. 339. Eat. & Wr. 338. Walp. Rep. 1. 693. Dietr. 4. 1068.

O. Lagopus. Nutt. in Journ. Acad. Philad. 7. 17. Torr. & Gray, Fl. 1. 340. Eat. & Wr. 338. Walp. Rep. 1. 694. Dietr. 4. 1068. Parry, Am. Naturalist, 8. 32.

O. Lamberti. Pursh, 740. Bradbury, Cat. 338. Nutt. Genera, 2. 98. Sims, Bot. Mag. **t. 2147.** James, Long's Exped. 2. 110. DC. Prodr. 2. 277. Torrey, Ann. Lyc. N. Y. 2. 178; Nicol. Rep. 148; Frem. Rep. 89; Stansb. Rep. 385; Sitgr. Rep. 158; Marcy's Rep. 284; Pac. R. Rep. 4. 80; Mex. Bound. 56; Bot. Wilkes, 279. Lindl. Bot. Reg. 13, **t. 1054.** Hook. Fl. Bor.-Am. 1. 147; Lond. Journ. Bot. 6. 212. Don, Mill. 2. 250. Torr. & Gray, Fl. 1. 339 & 693; Pac. R. Rep. 2. 126 & 163. Eat. & Wr. 338. Walp. Rep. 1. 693. Nees, Pl. Neuwied. 7. Dietr. 4. 1068. Gray, Pl. Lindh. 177; Pl. Fendl. 35; Pl. Wright. 1. 53 & 2. 45; Pac. R. Rep. 12. 42; Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 6. 236; Manual, 133. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 189. Pl. Bourgeau, 256. Porter, Hayd. Rep. 1870, 475; 1871, 481; Fl. Col. 30. Coulter, Hayd. Rep. 1872, 764. Rothr. Pl. Wheeler, 36.

Astragalus Lamberti. Poir. Suppl. 5. 564. Spreng. Syst. 3. 308.

O. Hookeriana. Nutt.; Torr. & Gray, Fl. 1. 340. Eat. & Wr. 338. Walp. Rep. 1. 694. Dietr. 4. 1068.

O. Plattensis. Nutt.; same citations. Torrey, Frem. Rep. 89.

O. sericea. Nutt.; same citations. Hook. in Lond. Journ. Bot. 6. 212. Torrey, Pac. R. Rep. 4. 80.

O. campestris. Hook. in Lond. Journ. Bot. 6. 212.

O. multiceps. Nutt.; Torr. & Gray, Fl. 1. 341. Eat. & Wr. 338. Walp. Rep 1. 693. Dietr. 4. 1068. Hook. in Lond. Journ. Bot. 6. 212. Gray, Proc. Acad Philad. 1863, 61; Proc. Am. Acad. 6. 234. Porter, Hayd. Rep. 1871, 481; Fl. Col 30. Rothr. Pl. Wheeler, 36.

O. nana. Gray, Am. Journ. Sci. 2. 33. 410.

O. nana. Nutt.; Torr. & Gray, Fl. 1. 340. Eat. & Wr. 338. Walp. Rep. 1. 694 Dietr. 4. 1068. Gray, Proc. Am. Acad. 6. 236. Coulter, Hayd. Rep. 1872, 764. Porter, Fl. Col. 30.

? *O. argentata.* Pursh, 473. Richard. in Journ. Frankl. 17. Hook. Fl. Bor.-Am 1. 146. Torr. & Gray, Fl. 1. 693.

O. nigrescens. Fisch.; DC. Prodr. 2. 278. See syn. in Ledeb. Fl. Ross. 1. 588 Trautvetter, Pl. Middend. 1. 49. — Hook. Fl. Bor.-Am. 1. 147. Torr. & Gray, Fl 1. 340. Eat. & Wr. 338. Dietr. 4. 1068. Hook. f. Journ. Linn. Soc. 1. 121 & 124; Arct. Pl. 289 & 324.

Astragalus nigrescens. Pall. Astrag. 65, **t. 63.**

O. podocarpa. Gray, Proc. Am. Acad. 6. 234. Brandegee, Fl. S. W. Col. 236.

O. arctica, var. *inflata.* Hook. Fl. Bor.-Am. 1. 146. Torr. & Gray, Fl. 1. 339.

O. splendens. Dougl.; Hook. Fl. Bor.-Am. 1. 147. Don, Mill. 2. 251. Torr. & Gray, Fl. 1. 341. Eat. & Wr. 338. Walp. Rep. 1. 690. Torrey, Nicol. Rep. 148 Stansb. Rep. 385. Dietr. 4. 1069. Engelm. Pl. Upp. Miss. 189. Gray, Pac. R. Rep. 12. 42; Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 60; Proc. Am Acad. 6. 236. Pl. Bourgeau, 256. Porter Fl. Col. 31. Rothr. Pl. Wheeler, 36.

Var. **Richardsoni.** Hook. Fl. Bor.-Am. 1. 147. Torr. & Gray, Fl. 1. 341.

O. oxyphylla. Richard. in Journ. Frankl. 17.

O. Uralensis. DC. Astrag. 68 & Prodr. 2. 276, with syn. See syn. also in Ledeb. Fl. Ross. 1. 593. — Richard. in Journ. Frankl. 18. Hook. Fl. Bor.-Am. 1. 145. Don Mill. 2. 249. Nutt. in Journ. Acad. Philad. 7. 18. Torr. & Gray, Fl. 1. 338. Eat & Wr. 337. Walp. Rep. 1. 692. Torrey, Pac. R. Rep. 4. 80. Hook. f. in Journ Linn. Soc. 1. 121 & 124; Arct. Pl. 289 & 324. Rothr. Pl. Alask. 445.

Astragalus Uralensis, Linn. Pall. Astrag. **t. 42.** Schlecht. Fl. Lab. in Linnæa 10. 99.

Var. **pumila.** Ledeb. Fl. Alt. 3. 290; Fl. Ross. 1. 594. Gray, Proc. Am. Acad 6. 235. Porter, Fl. Col. 30.

O. arctica. R. Brown, Parry's 1st Voy. Appx. 278 (Regensb. Flora, 7², Beil. 3 DC. Prodr. 2. 276. Hook. Fl. Bor.-Am. 1. 146, in part. Don, Mill. 2, 249. Hook & Arn. Bot. Beechey, 122. Torr. & Gray, Fl. 1. 338, in part. Eat. & Wr. 337 Trautv. Pl. Middend. 1. 49, with syn. Seem. Bot. Herald, 28 & 51. Pl. Bourgeau, 255. Gray, Proc. Acad. Philad. 1863, 60.

Astragalus arcticus. Spreng. Syst. 4². 288.

O. Uralensis, var. *arctica.* Ledeb. Fl. Ross. 1. 594.

O. arctica; podocarpa, Uralensis.
argentata; nana.
borealis; campestris.
O. campestris; Lamberti.
foliolosa; deflexa.
Hookeriana; Lamberti.

O. nana; multiceps.
oxyphylla; splendens.
Plattensis; Lamberti.

O. polaris; Astragalus polaris.
sericea; Lamberti.
viscida; campestris.

PARKINSONIA aculeata. Linn. Spec. 375. Jacq. Stirp. Am. 121, **t. 80.** Lam. Ill. **t. 336.** DC. Mem. Legum. 11, **t. 21.** Griseb. Fl. Brit. W. Ind. 204; Pl. Lorentz. 81. Torrey, Mex. Bound. 59. Benth. in Mart. Fl. Bras. 15². 78, **t. 26.** Gray, Hall's Pl. Texas, 8. Brew. & Wats. Fl. Calif. 1. 162.
P. spinosa. HBK. Nov. Gen. 6. 335.

P. florida. Watson, Proc. Am. Acad. 11. 135. Brew. & Wats. Bot. Calif. 1. 135.
Cercidium floridum. Benth. in Gray, Pl. Wright. 1. 58. Walp. Ann. 4. 594.

P. microphylla. Torrey, Pac. R. Rep. 4. 82; Mex. Bound. 59. Walp. Ann. 7. 812. Gray, Ives's Rep. 11. Benth. in Mart. Fl. Bras. 15². 78. Watson, Pl. Wheeler, 8; Proc. Am. Acad. 11. 136. Brew. & Wats. Bot. Calif. 1. 162.

P. Texana. Watson, Proc. Am. Acad. 11. 136.
Cercidium Texanum. Gray, Pl. Wright. 1. 58 & 2. 50. Walp. Ann. 4. 594. Torrey, Mex. Bound. 59.
Hoopesia arborea, Buckley, in part. See under *Acacia flexicaulis.*

P. Torreyana. Watson, Proc. Am. Acad. 11. 135. Brew. & Wats. Bot. Calif. 1. 162.
Cercidium floridum. Torrey, Pac. R. Rep. 4. 11 & 82; same, 5. 360, **t. 3**; Mex. Bound. 59. Gray, Ives's Rep. 11.

PARRYELLA filifolia. Torr. & Gray; Gray, Proc. Am. Acad. 7. 397.

PETALOSTEMON candidus. Michx. Fl. 2. 49, **t. 37, fig. 1.** Persoon, 2. 268. Pursh, 461. James, Long's Exp. 2. 339. DC. Prodr. 2. 243. Torrey, Ann. Lyc. N. Y. 2. 177; Nicol. Rep. 148; Frem. Rep. 88; Emory's Rep. 408; Pac. R. Rep. 4. 78; Mex. Bound. 53. Hook. Fl. Bor.-Am. 1. 137; Comp. Bot. Mag. 1. 22. Don, Mill. 2. 222. Spach, Hist. Veg. 1. 245. Torr. & Gray, Fl. 1. 309; Pac. R. Rep. 2. 126 & 163. Eat. & Wr. 348. Dietr. 4. 1013. Gray, Pl. Fendl. 33; Pac. R. Rep. 12. 42; Manual, 130; Hall's Pl. Texas, 7. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 188. Lesqx. Fl. Ark. 356. Pl. Bourgeau, 255. Porter, Hayd. Rep. 1870, 474; Fl. Col. 23.
Dalea candida. Willd. Spec. 3. 1337. Spreng. Syst. 3. 326.
Psoralea candida. Poir. Dict. 5. 694.
Petalostemon virgatum. Nees, Pl. Neuwied. 6.

Var. **multifoliolatus.** Gray, Hall's Pl. Texas, 7.

P. carneus. Michx. Fl. 2. 49. Persoon, 2. 268. Pursh, 461. Elliott, 2. 176. DC. Prodr. 2. 243. Don, Mill. 2. 222. Spach, Hist. Veg. 1. 246. Torr. & Gray, Fl. 1. 311. Eat. & Wr. 348. Dietr. 4. 1014. Chapman, 93. Wood, Bot. & Fl. 94.
Psoralea carnea. Poir. Dict. 5. 694.
Dalea carnea. Spreng. Syst. 3. 326.

P. corymbosus. Michx. Fl. 2. 50. Persoon, 2. 268. Pursh, 461. Elliott, 2. 176. DC. Prodr. 2. 244. Don, Mill. 2. 223. Spach, Hist. Veg. 1. 246. Torr. & Gray, Fl. 1. 311. Eat. & Wr. 348. Dietr. 4. 1014. Chapman, 93. Wood, Bot. & Fl. 94.
Anonymos pinnatifida. Walter, 102.
Kuhnistera Carolinensis. Lam. Dict. 3. 370.
Dalea Kuhnistera. Willd. Spec. 3. 1337. Spreng. Syst. 3. 327.
Psoralea corymbosa. Poir. Dict. 5. 694.
Cylipogon virgatum. Raf. Journ. Phys. 1819, 97.

Var. β. Curtis, Am. Journ. Sci. 2. 7. 406 (Bot. Zeit. 8. 520).

Gatesia Alabamensis. Bertol. Bot. Misc. 7. 31, **t. 1** (Bot. Zeit. 9. 899); fide Gray in Am. Journ. Sci. 2. 14. 115.

P. decumbens. Nutt. in Journ. Acad. Philad. 7. 93. Torr. & Gray, Fl. 1. 311. Eat. & Wr. 348. Walp. Rep. 1. 652. Dietr. 4. 1014. Gray, Pl. Wright. 1. 46.

P. emarginatus. Torr. & Gray, Fl. 1. 311. Eat. & Wr. 348. Walp. Rep. 1. 652. Dietr. 4. 1014. Torrey, Mex. Bound. 53. Gray, Hall's Pl. Texas, 7. Young, Fl. Texas, 221.

P. exilis. Gray, Pl. Wright. 2. 41. Walp. Ann. 4. 481. Torrey, Mex. Bound. 53.

P. flavescens. Watson, Am. Naturalist, 7. 299.

P. foliosus. Gray, Proc. Am. Acad. 7. 336; Manual, 679.

P. gracilis. Nutt. in Journ. Acad. Philad. 7. 92. Torr. & Gray, Fl. 1. 309. Eat. & Wr. 348. Walp. Rep. 1. 651. Dietr. 4. 1013. Gray, Pl. Fendl. 33. Torrey, Marcy's Rep. 283; Mex. Bound. 53. Chapman, 93. Wood, Bot. & Fl. 94.

P. bicolor. Bertol. Bot. Misc. 9. 9, **t. 3, fig. 1** (Bot. Zeit. 9. 902); fide Gray, Am. Journ. Sci. 2. 14. 115.

Var. **oligophyllus.** Torrey, Emory's Rep. 139.

P. griseus. Torr. & Gray, Fl. 1. 310. Eat. & Wr. 349. Walp. Rep. 1. 651. Dietr. 4. 1014. Young, Fl. Texas, 220.

P. macrostachyus. Torrey, Ann. Lyc. N. Y. 2. 176; Bot. Wilkes, 270. Don, Mill. 2. 222. Torr. & Gray, Fl. 1. 309 in part, & 690. Eat. & Wr. 348. Walp. Rep. 1. 651. Dietr. 4. 1013. Gray, Pl. Fendl. 33; Proc. Acad. Philad. 1863. 60. Engelm. Pl. Upp. Miss. 189. Watson, Am. Naturalist, 7. 300. Porter, Fl. Col. 23.

Dalea compacta. Spreng. Syst. 3. 327.

P. multiflorus. Nutt. in Journ Acad. Philad. 7. 92. Torr. & Gray, Fl. 1. 309. Eat. & Wr. 348. Walp. Rep. 1. 651. Engelm. & Gray, Pl. Lindh. 7. Dietr. 4. 1013. Engelm. Pl. Upp. Miss. 189. Torrey, Marcy's Rep. 283; Pac. R. Rep. 4. 78. Gray Pl. Wright. 1. 46; Hall's Pl. Texas, 7. Young, Fl. Texas, 220.

P. obovatus. Torr. & Gray, Fl. 1. 310. Eat. & Wr. 348. Walp. Rep. 1. 651 Engelm. & Gray, Pl. Lindh. 7. Dietr. 4. 1014. Gray, Pl. Lindh. 31; Pl. Fendl 33. Young, Fl. Texas, 221.

Dalea agastachya. Moric. Pl. Nouv. 65, **t. 44.** Walp. Rep. 2. 513.

P. ornatus. Dougl.; Hook. Fl. Bor.-Am. 1. 138. Don, Mill. 2. 470. Watson, Am. Naturalist, 7. 300.

P. macrostachyus. Torr. & Gray, Fl. 1. 309, in part. Hook. & Arn. Bot. Beechey, 333.

Dalea ornata. Eat. & Wr. 219.

P. phleoides. Torr. & Gray, Fl. 1. 310. Eat. & Wr. 348. Walp. Rep. 1. 651 Dietr. 4. 1014. Young, Fl. Texas, 221.

Var. **microphyllus.** Engelm. & Gray, Pl. Lindh. 7. Gray, Hall's Pl. Texas, 7.

P. roseum. Nutt. in Am. Journ. Sci. 1. 5. 298. DC. Prodr. 2. 243. Don, Mill. 2. 222. Chapman, Coult. Bot. Gazette, 3. 4.

P. Searlsiæ. Gray, Proc. Am. Acad. 8. 380. Watson, Am. Naturalist, 7. 300.

P. tenuifolius. Gray, Proc. Am. Acad. 11. 73.

P. villosus. Nutt. Genera, 2. 85. Torrey, Am. Journ. Sci. 1. 4. 66; Ann. Lyc. N. Y. 2. 177; Marcy's Rep. 284; Pac. R. Rep. 4. 78. DC. Prodr. 2. 244. Don, Mill. 2. 222. Torr. & Gray, Fl. 1. 310 & 690. Eat. & Wr. 348. Dietr. 4. 1013. Gray

Pl. Fendl. 33; Manual, 130. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 189. Pl. Bourgeau, 255.

Dalea villosa. Spreng. Syst. 3. 326.

P. violaceus. Michx. Fl. 2. 50, **t. 37, f. 2.** Persoon, 2. 268. Pursh, 461. Sims, Bot. Mag. **t. 1707.** Nutt. Genera, 2. 85. James, Long's Exp. 2. 339. DC. Prodr. 2. 243. Torrey, Ann. Lyc. N. Y. 2. 177; Nicol. Rep. 148; Frem. Rep. 88; Marcy's Rep. 283; Emory's Rep. 408; Pac. R. Rep. 4. 78. Hook. Fl. Bor.-Am. 1. 137; Comp. Bot. Mag. 1. 22. Don, Mill. 2. 222. Spach, Hist. Veg. 1. 245. Torr. & Gray, Fl. 1. 310; Pac. R. Rep. 2. 126 & 163. Eat. & Wr. 348. Nees, Pl. Neuwied. 6. Engelm & Gray, Pl. Lindh. 7. Dietr. 4. 1014. Gray, Pl. Fendl. 33; Pac. R. Rep. 12. 42; Manual, 130; Hall's Pl. Texas, 7. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 189. Pl. Bourgeau, 255. Porter, Hayd. Rep. 1870, 474; Fl. Col. 23. Young, Fl. Texas, 221.

Dalea purpurea. Vent. Hort. Cels, **t. 40.** Poir. in Lam. Ill. 3. 675, **t. 980.**

Dalea violacea. Willd. Spec. 3. 1337. Spreng. Syst. 3. 327.

Psoralea purpurea. Poir. Dict. 5. 604.

Var. **pubescens.** Gray, Pl. Lindh. 176; Pl. Fendl. 33; Pl. Wright. 1. 46.

P. virgatus. Scheele, Linnæa, 21. 461. Walp. Ann. 2. 359.

P. alopecuroides; Dalea alopecuroides.
bicolor; gracilis.
capitatus; Dalea aurea.
P. macrostachyus; ornatus.
roseus; carneus.
virgatus; candidus.

PETERIA scoparia. Gray, Pl. Wright. 1. 50 & 2. 35. Walp. Ann. 4. 481. Torrey, Mex. Bound. 51. Brandegee, Fl. S. W. Col. 234.

P. Thompsonæ. Watson, Am. Naturalist, 7. 300.

PHACA. See under *Astragalus.*

P. andina; Astragalus alpinus.
annua; A. Geyeri.
argophylla; A. triphyllus.
asiragalina; A. alpinus, tener.
australis; A. Hallii.
cæspitosa; A. triphyllus.
Candolliana; A. triflorus.
canescens; A. leucopsis.
cretacea; A. Missouriensis.
densifolia; A. Crotalariæ, Menziesii.
digitata; A. tridactylicus.
elegans; A. oroboides.
elongata; A. flexuosus.
Floridana; Sesbania vesicaria.
inflata; A. Menziesii.
P. longifolia; Astragalus pictus.
macrocarpa; A. lonchocarpus.
mollissima; A. Purshii, Utahensis.
neglecta; A. Cooperi.
nigrescens; A. multiflorus.
Nuttallii; A. Menziesii.
parviflora; A. oroboides.
parvifolia; A. gracilis.
pauciflora; A. leptaleus.
podocarpa; A. sclerocarpus.
pygmæa; A. Chamæleuce.
sericea; A. sericoleucus.
villosa; A. mollissimus.
—— ? A. Webberi.

PHASEOLUS acutifolius. Gray, Pl. Wright. 1. 43 & 2. 32. Seem. Bot. Herald, 281. Walp. Ann. 4. 502.

P. angustissimus. Gray, Pl. Wright. 2. 33. Walp. Ann. 4. 502. Torrey, Mex. Bound. 50.

P. atropurpureus. Moç. Icon. Fl. Mex. ined. **t. 244.** DC. Prodr. 2. 395. Dietr. 4. 1194. Torrey, Mex. Bound. 50. Gray, Proc. Am. Acad. 5. 156, with var.

P. diversifolius. Persoon, 2. 290. Poir. Suppl. 3. 6. DC. Prodr. 2. 394. Don, Mill. 2. 355. Hook. Comp. Bot. Mag. 1. 24. Beck, Bot. 92. Torr. & Gray, Fl. 1. 279. Eat. & Wr. 353. Torrey, Fl. N. Y. 1. 160; Pac. R. Rep. 4. 77. Gray, Pl. Lindh. 170; Pl. Wright. 1. 44; Manual, 140. Parry, Pl. Minn. 610. Chapman, 106.

P. angulosus. Ort. Nov. Pl. 24. Persoon, 2. 295. Savi, Diss. 2. 1. DC. Prodr. 2. 395. Spreng. Syst. 3. 254. Don, Mill. 2. 355.

Glycine angulosa. Muhl.; Willd. Spec. 3. 1050. Persoon, 2. 300. Ait. f. Hort. Kew. 4. 290. Elliott, Journ. Acad. Philad. 1. 325.

? *Glycine Virginica.* Spreng. in Schrad. Bot. Journ. 4. 198.

P. trilobus. Michx. Fl. 2. 60. Pursh, 470. Bigel. Fl. Bost. 286.

? *Glycine pedunculosa.* Raf. Med. Rep. 5. 364. Desv. Journ. Bot. 1. 227. Poir. Suppl. 5. 693.

? *Glycine angulata.* Desv. Journ. Bot. 3. 78. DC. Prodr. 2. 242. Don, Mill. 2. 221. Eat. & Wr. 256. Dietr. 4. 1175.

Strophostyles angulosa. Elliott, 2. 229. Torrey, Compend. 270.

Dolichos (?) *angulosus.* DC. Prodr. 2. 399. Don, Mill. 2. 359.

P. filiformis. Benth. Bot. Sulph. 13. Walp. Rep. 2. 537. Gray, Proc. Am. Acad. 5. 156. (Lower California.)

P. helvolus. Linn. Spec. 724. Hill, Veg. Syst. 20, **t. 57, fig. 3.** Walter, 182. Lam. Dict. 3. 73. Willd. Spec. 3. 1032. Michx. Fl. 2. 60. Persoon, 2. 295. Ait. f. Hort. Kew. 4. 289. Pursh, 470. DC. Prodr. 2. 395. Hook. Fl. Bor.-Am. 1. 162. Don, Mill. 2. 355. Beck, Bot. 92. Torr. & Gray, Fl. 1. 280. Eat. & Wr. 352. Walp. Rep. 1. 774. Torrey, Fl. N. Y. 1. 161. Dietr. 4. 1192. Gray, Pl. Fendl. 30. Pl. Wright. 1. 44; Manual, 140. Chapman, 106.

P. vexillatus. Walter, 182, not Linn. Pursh, 470. DC. Prodr. 2. 395, in part. Don, Mill. 2. 355. Beck, Bot. 92. Spach, Hist. Veg. 1. 327. Darlington, Fl. Cestr. 430.

Glycine umbellata. Muhl.; Willd. Spec. 3. 1058. Spreng. in Schrad. Bot. Journ. 4. 198. Persoon, 2. 300. Poir. Suppl. 2. 798. Elliott, Journ. Acad. Philad. 1. 326.

Glycine peduncularis. Muhl. Cat. 67. Barton, Prodr. Fl. Philad. 71. Elliott, l. c.

P. peduncularis & var. *parabolicus.* Barton, Comp. Fl. Philad. 2. 81.

Glycine Helvola. Elliott, Journ. Acad. Philad. 1. 326 (Litt.-Ber. zu Linnæa, 1828, 164).

Dolichos vexillatus & *parabolicus.* Nutt. Genera, 2. 112.

Strophostyles peduncularis. Elliott, 2. 230.

Strophostyles Helvola. Elliott, 2. 230. Torrey, Compend. 270.

Dolichos helvolus. Nutt. Genera, 2. 112. Spreng. Syst. 3. 250.

P. macropoides. Gray, Pl. Wright. 2. 33. Walp. Ann. 4. 560. Torrey, Mex. Bound. 50.

P. pauciflorus. Benth. Comm. Legum. Gen. 76. Walp. Rep. 1. 775. Dietr. 4. 1193. Gray, Pl. Wright. 1. 44; Manual, 141; Hall's Pl. Texas, 7. Engelm. Pl. Upp. Miss. 188. Torrey, Pac. R. Rep. 4. 77.

P. leiospermus. Torr. & Gray, Fl. 1. 280. Eat. & Wr. 353. Walp. Rep. 1. 774. Torrey, Nicol. Rep. 147; Sitgr. Rep. 158. Dietr. 4. 1192. Gray, Pl. Fendl. 30.

P. perennis. Walter, 182. Muhl. Ind. Fl. Lanc. 175. Willd. Spec. 3. 1031. Enum. 753. Persoon, 2. 295. Poir. Suppl. 3. 5. Pursh, 469. Elliott, Journ. Acad. Philad. 1. 324 (Litt.-Ber zu Linnæa, 1828, 164); Sketch, 2. 228. DC. Prodr. 2. 391. Spreng. Syst. 3. 253. Torrey, Compend. 270; Ann. Lyc. N. Y. 2. 180; Fl. N. Y.

1. 100, t. **23**. Don, Mill. 2. 349. Beck, Bot. 91. Hook. Comp. Bot. Mag. 1. 24. Darling. Fl. Cestr. 429. Torr. & Gray, Fl. 1. 279. Eat. & Wr. 352. Dietr. 4. 1189. Chapman, 106. Gray, Manual, 140.

Dolichos polystachyus. Linn. Spec. 726. Hill, Veg. Syst. 21, t. **20**. Lam. Dict. 2. 208. Willd. Spec. 3. 1049.

P. paniculatus. Michx. Fl. 2. 60. Persoon, 2. 295. Poir. Suppl. 3. 5.

P. macrostachys. Elliott, Journ. Acad. Philad. 1. 324 (Litt.-Ber. zu Linnæa, 1828, 164). DC. Prodr. 2. 391. Don, Mill. 2. 349.

P. retusus. Benth. Pl. Hartw. 11. Walp. Rep. 1. 770. Gray, Pl. Lindh. 170; Pl. Wright. 1. 43 & 2. 32. Torrey, Mex. Bound. 49.

P. maculatus. Scheele, Linnæa, 21. 465.

P. rotundifolius. Gray, Pl. Wright. 2. 34. Walp. Ann. 4. 561.

P. sinuatus. Nutt.; Torr. & Gray, Fl. 1. 279. Eat. & Wr. 352. Walp. Rep. 1. 770. Dietr. 4. 1189. Gray, Pl. Wright. 1. 43. Chapman, 106.

P. Wrightii. Gray, Pl. Wright. 1. 43 & 2. 33. Walp. Ann. 4. 562. Torrey, Mex. Bound. 49.

P. angulosus; diversifolius.
Caribæus; Rhynchosia minima.
frutescens; Wistaria frutescens.
latifolius; Rhynchosia latifolia.
leiospermus; pauciflorus.
macrostachys; perennis.
maculatus; retusus.
menispermoideus; Rhynchosia menispermoidea.
P. monoicus; Amphicarpæa monoica.
paniculatus; perennis.
parabolicus & peduncularis; helvolus.
Pitcheri; Amphicarpæa monoica.
reniformis; Rhynchosia tomentosa.
trilobus; diversifolius.
tuberosus; Apios tuberosa.
vexillatus; helvolus.

PICKERINGIA montana. Nutt.; Torr. & Gray, Fl. 1. 389. Durand, Pl. Pratten. 86. Torrey, Mex. Bound. 51, t. **14**; Bot. Wilkes, 282. Bolander, Proc. Calif. Acad. 3. 79; Cat. 10. Brew. & Wats. Bot. Calif. 1. 114.

PISCIDIA Erythrina. Linn. Spec. 2 ed. 993. Lam. Dict. 1. 433; Ill. t. **605**. DC. Prodr. 2. 267, with syn. Nutt. Sylva, 2. 31, t. **52**. Griseb. Fl. Brit. W. Ind. 200. Chapman, 110.

PITHECOLOBIUM brevifolium. Benth. in Gray, Pl. Wright. 1. 67; Rev. Mim. in Trans. Linn. Soc. 30. 592. Torrey, Mex. Bound. 62.

Acacia Nueciana. Buckley, Proc. Acad. Philad. 1861, 453; fide Gray, same, 1862, 163.

P. dulce. Benth. in Hooker's Lond. Journ. Bot. 3. 199; Rev. Mim. 572, with syn. (Sonora.)

P. Unguis-Cati. Benth. in Hook. Lond. Journ. Bot. 3. 200; Rev. Mim. 572 & 648, with syn. Griseb. Fl. Brit. W. Ind. 226. Chapman, 116.

Inga Unguis-Cati. Willd. Spec. 4. 1006. Nutt. Sylva, 2. 37, t. **54**.

P. Guadalupense. Nutt. Sylva, 2. 40, t. **55**. Chapman, 116.

PROSOPIS cinerascens. Benth. Rev. Mim. in Trans. Linn. Soc. 30. 381. Watson, King's Rep. 5. 420. Brew. & Wats. Bot. Calif. 1. 163.

P. reptans. Benth. in Hook. Journ. Bot. 4. 352, in part.

Strombocarpa cinerascens. Gray, Pl. Wright. 1. 61. Walp. Ann. 4. 614. Torrey, Mex. Bound. 60.

Mimosa calcarea. Buckley, Proc. Acad. Philad. 1861, 453; fide Gray, same, 1862, 163.

P. juliflora. DC. Prodr. 2. 447. Benth. Rev. Mim. 377, with syn. Brew. & Wats. Bot. Calif. 1. 163.

P. glandulosa. Torrey, Ann. Lyc. N. Y. 2. 192, **t. 2**; Emory's Rep. 139; Pac. R. Rep. 4. 82. Don, Mill. 2. 400. Dietr. 2. 1424. Eat. & Wr. 376. Walp. Rep. 1. 861. Benth. in Hook. Journ. Bot. 4. 348; Lond. Journ. Bot. 5. 81. Grisch. Fl. Brit. W. Ind. 217. Watson, King's Rep. 5. 420; Pl. Wheeler, 8. Gray, Hall's Pl. Texas, 7.

Algarobia glandulosa. Torr. & Gray, Fl. 1. 399; Pac. R. Rep. 2. 164. Engelm. & Gray, Pl. Lindh. 34. Engelm. in Wislizen. Rep. 10. Scheele, Roem. Texas, 427. Gray, Pl. Lindh. 181; Pl. Wright. 1. 60 & 2. 51; Pl. Thurb. 304; Ives's Rep. 11. Torrey, Sitgr. Rep. 158; Pac. R. Rep. 4. 20 & 82; same, 7. 10; Mex. Bound. 60.

P. odorata. Torrey, Frem. Rep. 313, **t. 1**, excl. fruit.

P. (?) heterophylla. Benth. Rev. Mim. 379. (Sonora.)

P. pubescens. Benth. in Lond. Journ. Bot. 5. 82; Rev. Mim. 380. Walp. Ann. 1. 259. Watson, King's Rep. 5. 420; Pl. Wheeler, 8. Brew. & Wats. Bot. Calif. 1. 163.

P. odorata. Torrey, Frem. Rep. 313, **t. 1**, as to fruit.

P. Emorgi. Torrey, Emory's Rep. 139.

Strombocarpa pubescens. Gray, Pl. Wright. 1. 60 & 2. 51; Ives's Rep. 9. Torr. & Gray, Pac. R. Rep. 2. 163. Torrey, same, 4. 11, 20 & 82, 7. 10, & 5. 360, **t. 4**; Mex. Bound. 60.

Strombocarpa odorata. Torrey, Sitgr. Rep. 158.

PSORALEA argophylla. Pursh, 475. Poir. Suppl. 4. 588. Spreng. Syst. 3. 200. Hook. Fl. Bor.-Am. 2. 136, **t. 52**. Torr. & Gray, Fl. 1. 301. Torrey, Nicol. Rep. 147; Frem. Rep. 88; Marcy's Rep. 283. Dietr. 4. 1025. Gray, Pl. Fendl. 31; Pac. R. Rep. 12. 41; Proc. Acad. Philad. 1863, 60; Manual, 120. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 188. Durand, Fl. Utah, 161. Pl. Bourgeau, 255. Porter, Fl. Col. 22.

P. incana. Nutt. in Fras. Cat. 1813; Genera, 2. 102. James, Long's Exped. 2. 330. DC. Prodr. 2. 219. Don, Mill. 2. 203. Eat. & Wr. 377. Nees, Pl. Neuwied. 7.

Var. **decumbens.** Gray, Pac. R. Rep. 12. 41.

P. Californica. Watson; Gray, in Proc. Am. Acad. 12. 251.

P. campestris. Nutt.; Torr. & Gray, Fl. 1. 301. Eat. & W.. 378. Walp. Rep. 1. 659. Torrey, Frem. Rep. 88. Dietr. 4. 1025. Engelm. Pl. Upp. Miss. 188.

P. canescens. Michx. Fl. 2. 57. Poir. Dict. 5. 687. Persoon, 2. 347. Pursh, 475. James, Cat. 186. Elliott, 2. 195. DC. Prodr. 2. 220. Spreng. Syst. 3. 199. Torrey, Ann. Lyc. N. Y. 2. 175. Don, Mill. 2. 204. Torr. & Gray, Fl. 1. 301. Eat. & Wr. 378. Dietr. 4. 1024. Chapman, 92. Wood, Bot. & Fl. 92.

P. cuspidata. Pursh, 741. Poir. Suppl. 4. 590. Bradbury, Cat. 328. Nutt. Genera, 2. 102. James, Cat. 186. DC. Prodr. 2. 219. Spreng. Syst. 3. 201. Torrey, Ann. Lyc. N. Y. 2. 175; Nicol. Rep. 148; Pac. R. Rep. 4. 77. Don, Mill. 2. 203. Torr. & Gray, Fl. 1. 688; Pac. R. Rep. 2. 163. Eat. & Wr. 378. Gray, Pl. Lindh. 172; Pl. Wright. 2. 37; Pac. R. Rep. 12. 42; Hall's Pl. Texas, 7. Engelm. Pl. Upp. Miss. 188. Porter, Fl. Col. 22.

P. macrorhiza. Nutt. in Fras. Cat. 1813.

P. cryptocarpa. Torr. & Gray, Fl. 1. 301. Eat. & Wr. 379. Walp. Rep. 1. 659. Dietr. 4. 1025. Young, Fl. Texas, 219.

P. Rœmeriana. Scheele, Linnæa, 21. 463.

P. cyphocalyx. Gray, Pl. Lindh. 172; Pl. Wright. 1. 45. Walp. Ann. 2. 361.

P. palmata. Buckley, Proc. Acad. Philad. 1861, 451; fide Gray in same, 1862. 162.

P. digitata. Nutt.; Torr. & Gray, Fl. 1. 300; Pac. R. Rep. 2. 163. Eat. & Wr. 379. Walp. Rep. 1. 658. Dietr. 4. 1024. Engelm. Pl. Upp. Miss. 188. Torrey, Pac. R. Rep. 4. 77. Gray, Hall's Pl. Texas, 7. Porter, Fl. Col. 22.

P. esculenta. Pursh, 475, **t. 22.** Poir. Suppl. 4. 589. Bradbury, Cat. 338. Nutt. Genera, 2. 102. James, Long's Exped. 2. 330. DC. Prodr. 2. 219. Spreng. Syst. 3. 200. Torrey, Ann. Lyc. N. Y. 2. 175; Nicol. Rep. 147; Marcy's Rep. 283; Emory's Rep. 138 & 407; Mex. Bound. 51. Don, Mill. 2. 203. Spach, Hist. Veg. 1. 231. Torr. & Gray, Fl. 1. 302; Pac. R. Rep. 2. 163. Eat. & Wr. 377. Dietr. 4. 1025. Hook. in Lond. Journ. Bot. 6. 208. Parry, Pl. Minn. 611. Gray, Pl. Wright. 2. 37; Pac. R. Rep. 12. 42; Manual, 129; Hall's Pl. Texas, 7. Engelm. Pl. Upp. Miss. 188. Pl. Bourgeau, 255. Wood, Bot. & Fl. 93. Young, Fl. Texas, 219.

P. brachiata. Dougl.; Hook. Fl. Bor.-Am. 1. 137, **t. 53.** Don, Mill. 2. 469. Torr. & Gray, Fl. 1. 301 & 688. Eat. & Wr. 378. Walp. Rep. 1. 659. Pl. Bourgeau, 255.

P. hypogæa. Nutt.; Torr. & Gray, Fl. 1. 302. Eat. & Wr. 378. Walp. Rep. 1. 659. Dietr. 4. 1025. Hook. in Lond. Journ. Bot. 6. 208. Engelm. in Wisliz. Rep. 4. Porter, Fl. Col. 22.

Var. **scaposa.** Gray, Pl. Lindh. 173; Pl. Wright. 1. 45.

P. lanceolata. Pursh, 475. Poir. Suppl. 4. 588. Spreng. Syst. 3. 200. Hook. Fl. Bor.-Am. 1. 135, **t. 51**; Lond. Journ. Bot. 6. 208. Torr. & Gray, Fl. 1. 299. Eat. & Wr. 377. Torrey, Nicol. Rep. 148; Frem. Rep. 88; Bot. Wilkes, 269. Dietr. 4. 1024. Engelm. Pl. Upp. Miss. 188. Gray, Pac. R. Rep. 12. 41; Ives's Rep. 9; Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 8. 380. Watson, King's Rep. 5. 63. Porter, Hayd. Rep. 1870, 474; 1871, 480; Fl. Col. 21. Coulter, Hayd. Rep. 1872, 764. Rothrock, Pl. Wheeler, 36. Brew. & Wats. Fl. Col. 1. 140.

P. elliptica. Pursh, 741. Poir. Suppl. 4. 588. Bradbury, Cat. 338. Spreng. Syst. 3. 200.

P. arenaria. Nutt. Genera, 2. 102. James, Cat. 186. DC. Prodr. 2. 219. Torrey, Ann. Lyc. N. Y. 2. 175. Don, Mill. 2. 203.

P. laxiflora & *scabra.* Nutt.; Torr. & Gray, Fl. 1. 299 & 300. Eat. & Wr. 378 & 379. Walp. Rep. 1. 658. Dietr. 4. 1024.

P. linearifolia. Torr. & Gray, Fl. 1. 300. Eat. & Wr. 379. Walp. Rep. 1. 658. Dietr. 4. 1024. Torrey, Pac. R. Rep. 4. 77. Gray, Hall's Pl. Texas, 7.

P. Lupinellus. Michx. Fl. 2. 58. Poir. Dict. 5. 690. Persoon, 2. 347. Pursh, 476. Nutt. Genera, 2. 102. Elliott, 2. 196. DC. Prodr. 2. 220. Spreng. Syst. 3. 200. Don, Mill. 2. 204. Torr. & Gray, Fl. 1. 302. Eat. & Wr. 378. Dietr. 4. 1025. Chapman, 92. Wood, Bot. & Fl. 92.

P. macrostachys. DC. Prodr. 2. 220. Spreng. Syst. 4². 270. Hook. Fl. Bor.-Am. 1. 136. Don, Mill. 2. 204. Lindl. Bot. Reg. 21, **t. 1769.** Hook. & Arn. Bot. Beechey, 332. Torr. & Gray, Fl. 1. 304 & 689. Benth. Bot. Sulph. 11. Dietr. 4. 1026. Torrey, Mex. Bound. 51; Bot. Wilkes, 269. Brew. & Wats. Bot. Calif. 1. 140.

P. strobilina, var. β. Torr. & Gray, Fl. 1. 689.

P. melilotoides. Michx. Fl. 2. 58. Vent. Hort. Malm. **t. 94.** Poir. Dict. 5. 688. Pursh, 475. Sims, Bot. Mag. **t. 2063.** Ker, Bot. Reg. 6, **t. 454.** Barton, Fl. N. Am. 2. 63, **t. 57.** Elliott, 2. 197. DC. Prodr. 2. 220. Spreng. Syst. 3. 199. Don,

Mill. 2. 204. Torr. & Gray, Fl. 1. 303. Eat. & Wr. 378. Walp. Rep. 1. 659. Dietr. 4. 1025. Lesqx. Fl. Ark. 355. Chapman, 92. Gray, Manual, 129.

Trifolium psoraloides. Walter, 184.

Psoralea Melilotus. Persoon, 2. 347.

Melilotus psoraloides. Nutt. Genera, 2. 104.

Psoralea eglandulosa. Elliott, 2. 198. DC. Prodr. 2. 220. Don, Mill. 2. 204. Hook. Comp. Bot. Mag. 1. 22. Torr. & Gray, Fl. 1. 303. Eat. & Wr. 378. Dietr. 4. 1025.

P. micrantha. Gray, Pac. R. Rep. 4. 77.

P. multijuga. Elliott, 2. 198. DC. Prodr. 2. 220. Spreng. Syst. 4². 271. Don, Mill. 2. 204. Torr. & Gray, Fl. 1. 304. Eat. & Wr. 378. Dietr. 4. 1026. Chapman, 92. Wood, Bot. & Fl. 92.

P. Onobrychis. Nutt. Genera, 2. 104. Ker, Bot. Reg. 6, **t. 453** (Spreng. Neue Entdeck. 2. 185). DC. Prodr. 2. 220. Spreng. Syst. 3. 199. Torrey, Ann. Lyc. N. Y. 2. 175. Don, Mill. 2. 204. Torr. & Gray, Fl. 1. 304 & 688. Eat. & Wr. 378. Dietr. 4. 1025. Chapman, 92. Gray, Manual, 129.

Stylosanthes racemosa. Nutt. in Fras. Cat. 1813.

P. latifolia. Torrey, Ann. Lyc. N. Y. 2. 176. Don, Mill. 2. 204.

P. orbicularis. Lindl. Bot. Reg. 23, **t. 1971.** Hook. & Arn. Bot. Beechey, 332. Torr. & Gray, Fl. 1. 304 & 689. Eat. & Wr. 379. Walp. Rep. 1. 660. Benth. Bot. Sulph. 11. Dietr. 4. 1026. Durand, Pl. Pratten. 85. Torrey, Mex. Bound. 51; Bot. Wilkes. 269. Boland. Cat. 10. Brew. & Wats. Bot. Calif. 1. 139.

P. physodes. Dougl.; Hook. Fl. Bor.-Am. 1. 136. Don, Mill. 2. 469. Hook. & Arn. Bot. Beechey, 333. Torr. & Gray, Fl. 1. 304 & 689. Eat. & Wr. 377. Walp. Rep. 1. 659. Dietr. 4. 1026. Torrey, Pac. R. Rep. 4. 77; Mex. Bound. 51; Bot. Wilkes, 269. Cooper, Pac. R. Rep. 12. 58. Boland. Cat. 9. Gray, Proc. Am. Acad. 8. 380. Brew. & Wats. Bot. Calif. 1. 139.

P. rhombifolia. Torr. & Gray, Fl. 1. 303 & 688. Eat. & Wr. 379. Walp. Rep. 1. 659. Dietr. 4. 1025. Engelm. & Gray, Pl. Lindh. 6. Gray, Hall's Pl. Texas, 7. Young, Fl. Texas, 219.

P. simplex. Nutt.; Torr. & Gray, Fl. 1. 303. Eat. & Wr. 379. Walp. Rep. 1. 659. Dietr. 4. 1025. Gray, Hall's Pl. Texas, 7. Young, Fl. Texas, 219.

P. stipulata. Torr. & Gray, Fl. 1. 688. Dietr. 4. 1026. Walp. Ann. 3. 849. Gray, Manual, 129.

P. strobilina. Hook. & Arn. Bot. Beechey, 332, **t. 80.** Torr. & Gray, Fl. 1. 689 excl. var. Walp. Rep. 1. 660. Dietr. 4. 1026. Brew. & Wats. Bot. Calif. 1. 139.

P. macrostachya, var. *β.* Torr. & Gray, Fl. 1. 304.

P. subacaulis. Torr. & Gray, Fl. 1. 302. Eat. & Wr. 378. Walp. Rep. 1. 659. Dietr. 4. 1025. Chapman, 92. Wood, Bot. & Fl. 93.

P. tenuiflora. Pursh, 475. Poir. Suppl. 4. 589. Bradbury, Cat. 338. Nutt. Genera, 2. 103. James, Cat. 186. DC. Prodr. 2. 220. Spreng. Syst. 3. 200. Don, Mill. 2. 204. Torr. & Gray, Fl. 1. 299 & 688. Eat. & Wr. 378. Nees, Pl. Neuwied. 7. Torrey, Frem. Rep. 88. Dietr. 4. 1024.

P. floribunda. Nutt.; Torr. & Gray, Fl. 1. 300 & 688; Pac. R. Rep. 2. 163. Eat. & Wr. 378. Walp. Rep. 1. 658. Torrey, Frem. Rep. 88; Emory's Rep. 138 & 40. Marcy's Rep. 283; Sitgr. Rep. 158; Mex. Bound. 51. Engelm. & Gray, Pl. Lindh. 7. Dietr. 4. 1024. Hook. in Lond. Journ. Bot. 6. 208. Gray, Pl. Fendl. 31; Pl. Lindh. 173; Pl. Wright. 2. 37; Proc. Acad. Philad. 1863, 60; Manual, 129. Engelm. Pl. Upp. Miss. 188. Porter, Hayd. Rep. 1870, 474; Fl. Col. 22. Rothr. Pl. Wheeler, 36. Brew. & Wats. Bot. Calif. 1. 140.

Var. **obtusiloba.**

P. obtusiloba. Torr. & Gray, Fl. 1. 300 & 688; Pac. R. Rep. 2. 126 & 163. Eat. & Wr. 378. Walp. Rep. 1. 658. Dietr. 4. 1024. Engelm. & Gray, Pl. Lindh. 7. Young, Fl. Texas, 218.

P. virgata. Nutt. Genera, 2. 104. Elliott, 2. 197. DC. Prodr. 2. 218. Spreng. Syst. 3. 198. Don, Mill. 2. 203. Torr. & Gray, Fl. 1. 303. Eat. & Wr. 378. Dietr. 4. 1025. Chapman, 92. Wood, Bot. & Fl. 92.

P. alnifolia & *alopecurina*; Rhynchosia tomentosa.
alopecuroides; Dalea alopecuroides, Rhynchosia tomentosa.
arenaria; lanceolata.
aurea; Dalea aurea.
brachiata; esculenta.
candida; Petalostemon candidus.
carnea; Petalostemon carneus.
corymbosa; P. corymbosus.
cryptocarpa; cuspidata.
Dalea; Dalea alopecuroides.
eglandulosa; melilotoides.
elliptica; lanceolata.
floribunda; tenuiflora.
incana; argophylla.
P. Jamesii; Dalea Jamesii.
latifolia; Onobrychis.
laxiflora; lanceolata, Dalea laxiflora.
longifolia; Astragalus pictus.
macrorhiza; cuspidata.
macrostachya; strobolina.
Melilotus; melilotoides.
obtusiloba; tenuiflora.
palmata; cyphocalyx.
parviflora; Astragalus gracilis.
pedunculata; Dalea alopecuroides.
purpurea; Petalostemon violaceus.
Roemeriana; cuspidata.
scabra; lanceolata.
strobolina; macrostachya.

RHYNCHOSIA Caribæa. DC. Prodr. 2. 384, in part. Chapman, 104.

Glycine Caribæa. Jacq. Icon. Rar. 1. 15, **t. 146.**

R. galactioides. Endl.; Walp. Rep. 1. 790. Dietr. 4. 1209. Chapman, 105. Wood, Bot. & Fl. 90.

Pitcheria galactioides. Nutt. in Journ. Acad. Philad. 7. 93. Torr. & Gray, Fl. 1. 286. Eat. & Wr. 360.

Lespedeza cytisoides. Bertol. Bot. Misc. 9. 14, **t. 6** (Bot. Zeit. 9. 903); fide Gray, Am. Journ. Sci. 2. 14. 115, & Maxim. Syn. Lesped. 383.

R. latifolia. Nutt.; Torr. & Gray, Fl. 1. 285. Walp. Rep. 1. 789. Dietr. 4. 1209. Gray, Hall's Pl. Texas, 7. Referred to *R. reticulata*, DC., by Griseb. in Fl. Brit. W. Ind. 190.

Phaseolus latifolius. Eat. & Wr. 353.

R. menispermoidea. DC. in Ann. Sci. Nat. 1. 4. 102; Mem. Legum. 304. **t. 55;** Prodr. 2. 384. Torr. & Gray, Fl. 1. 284. Dietr. 4. 1209. Engelm. & Gray, Pl. Lindh. 6. Torrey, Mex. Bound. 50. Chapman, 105.

Phaseolus menispermoideus. Eat. & Wr. 353.

R. minima. DC. Prodr. 2. 385. Torr. & Gray, Fl. 1. 687. Engelm. & Gray, Pl. Lindh. 6. Gray, Pl. Lindh. 31; Hall's Pl. Texas, 7. Benth. in Mart. Fl. Bras. 15. 204, **t. 54, fig. 2,** with syn. Griseb. Fl. Brit. W. Ind. 190. Chapman, 104. Wood, Bot. & Fl. 90.

Dolichos minimus. Linn. Spec. 726.

Glycine reflexa. Nutt. Genera, 2. 115. Elliott, 2. 236.

R. Caribæus. Nutt. in Am. Journ. Sci. 1. 5. 298. DC. Prodr. 2. 384, in part. Torr. & Gray, Fl. 1. 284. Dietr. 4. 1209.

Phaseolus Caribæus. Eat. & Wr. 353.

R. mollissima. Shuttleworth in herb.

Glycine mollissima. Elliott, 2. 235.

R. tomentosa, var (?) *mollissima.* Torr. & Gray, Fl. 1. 285. Lesqx. Fl. Ark. 357

R. tomentosa, var. *erecta.* Chapman, 105, in part.

R. Texana. Torr. & Gray, Fl. 1. 687. Gray, Pl. Lindh. 171; Pl. Wright. 1. 44 & 2. 34; Hall's Pl. Texas, 7. Torrey, Mex. Bound. 50. Young, Fl. Texas, 235 Grisch. Pl. Lorentz. 78. Referred to *R. Senna*, Gill., by Benth. in Mart. Fl. Bras. 15[1]. 205.

Var. **angustifolia.** Gray, Pl. Wright. 1. 44 & 2. 34. Torrey, Mex. Bound. 50.

R. tomentosa. Hook. & Arn. Comp. Bot. Mag. 1. 23. Torr. & Gray, Fl. 1. 284. Walp. Rep. 1. 789. Dietr. 4. 1200. Chapman, 105. Gray, Manual, 142.

Glycine tomentosa. Linn. Spec. 754. Hill, Veg. Syst. 21, **t. 6, fig. 2.** Lam. Dict 2. 736. Willd. Spec. 3. 1061, excl. var.; Enum. 755. Michx. Fl. 2. 63. Persoon. 2. 300. Ait. f. Hort. Kew. 4. 297. Spreng. Syst. 3. 197.

Psoralea alnifolia & *P. alopecurina.* Bertol. Bot. Misc. 9. 10, **t. 4** (Bot. Zeit. 9. 902. fide Gray in Am. Journ. Sci. 2. 14. 115.

Var. **monophylla.** Torr. & Gray, Fl. 1. 284. Gray, Manual, 142.

Trifolium simplicifolium. Walter, 184.

Glycine tomentosa, var. *monophylla.* Michx. Fl. 2. 63.

Glycine reniformis. Pursh, 486. Poir. Suppl. 5. 683. Spreng. Syst. 3. 195.

Glycine monophylla. Nutt. Genera, 2. 115.

Arcyphyllum simplicifolium. Elliott, Journ. Acad. Philad. 1. 371 (Litt.-Ber. zu Linnæa, 1828, 164).

Glycine simplicifolia. Elliott, Sketch, 2. 234. Wood, Bot. & Fl. 96.

Rhynchosia reniformis. DC. Prodr. 2. 384. Don, Mill. 2. 344. Hook. Comp. Bot. Mag. 1. 23.

Phaseolus reniformis. Eat. & Wr. 353.

Var. **volubilis.** Torr. & Gray, Fl. 1. 285. Torrey, Marcy's Rep. 283. Chapman, 105. Gray, Manual, 142.

Glycine tomentosa, var. *volubilis.* Michx. Fl. 2. 63.

Glycine tomentosa. Pursh, 486, excl. var. Nutt. Genera, 2. 115. Elliott, 2. 234

Arcyphyllum difformis. Elliott, Journ. Acad. Philad. 1. 371 (Litt.-Ber. zu Linnæa, 1828, 164).

Rhynchosia difformis. DC. Prodr. 2. 384. Don, Mill. 2. 344.

R. volubilis. Wood, Bot. & Fl. 96.

Var. **erecta.** Torr. & Gray, Fl. 1. 285 & 687. Chapman, 105, in part. Gray Manual, 142.

Trifolium erectum. Walter, 184.

Glycine tomentosa, var. *erecta.* Michx. Fl. 2. 63. Pursh, 486.

Glycine erecta. Nutt. Genera, 2. 114. Elliott, 2. 235.

Arcyphyllum erectum. Elliott, Journ. Acad. Philad. 1. 372 (Litt.-Ber. zu Linnæa 1828. 164).

Rhynchosia erecta. DC. Prodr. 2. 384. Don, Mill. 2. 344. Hook. Comp. Bot. Mag. 1. 23. Wood, Bot. & Fl. 96.

Glycine Caroliniana. Spreng. Syst. 3. 197.

ROBINIA hispida. Linn. Mant. 1. 101. DuRoi, Obs. Bot. 28. Walter, 18[illegible] Ait. f. Hort. Kew. 3. 53. Curtis, Bot. Mag. **t. 311.** Willd. Spec. 3. 1132; Enum. 769. Poir. Dict. 6. 223. Michx. Fl. 2. 65. Persoon, 2. 311. St. Hil. Pl. Franc. 3, **t. 320.** Pursh, 488. Elliott, 2. 243. Guimp. Otto & Hayne, **t. 66.** DC. Prodr. 2. 262. Spreng Syst. 3. 247. Don, Mill. 2. 258. Spach, Hist. Veg. 1. 261. Torr

& Gray, Fl. 1. 295. Eat. & Wr. 397. Loud. Arbor. 2. 627, **t. 88** & **fig. 307**. Dietr. 4. 1053. Curtis, Bot. N. Car. 49. Chapman, 94. Carrière, Rev. Hort. 1867, 309 & 431. **fig. 38** (fruit). Gray, Am. Naturalist, 1. 494 & 674; Manual, 131.

R. rosea. Marshall, Arbust. 134. Nouv. Duham. 2. 64, **t. 18.**

R. montana. Bartram, Trav. 335 & 342.

Pseudacacia hispida. Moench, 145.

Var. **rosea.** Pursh, 488. DC. Prodr. 2. 262. Torr. & Gray, Fl. 1. 295. Chapman, 94.

Var. **Elliottii.** Chapman, 94.

R. hispida, var. *rosea.* Elliott, 2. 243.

R. rosea. Don, Mill. 2. 238. Spach, Hist. Veg. 1. 263.

Var. **nana.** Elliott, 2. 243. DC. l. c. Torr. & Gray, Fl. l. c. Chapman, 94.

R. nana. Spach, Hist. Veg. 1. 262.

Var. **macrophylla.** DC. Prodr. 2. 262.

R. macrophylla. Schrad.; Don, Mill. 2. 238.

R. Neo-Mexicana. Gray, Pl. Thurb. 314. Torrey, Pac. R. Rep. 4. 79; Mex. Bound. 53. Walp. Ann. 4. 491. Watson, King's Rep. 5. 419. Porter, Fl. Col. 23.

R. Pseudacacia. Linn. Spec. 722. Marshall, Arbust. 133. L'Her. Stirp. Nov. 158. Walter, 186. Ait. Hort. Kew. 3. 53. Willd. Spec. 3. 1131; Enum. 769. Michx. Fl. 2. 65. Nouv. Duham. 2. 60, **t. 16.** Poir. Dict. 6. 222. Persoon, 2. 311. Michx. f. Arb. Amer. 3. 245, **t. 3** (Sylva, 2. 1, **t. 76**). Pursh, 487. Lam. Ill. t. **606**. James, Long's Exped. 3. 8. Elliott, 2. 242. Bigel. Fl. Bost. 2 ed. 277. DC. Prodr. 2. 261. Spreng. Syst. 3. 247. Torrey, Compend. 271; Ann. Lyc. N. Y. 2. 1. Fl. N. Y. 1. 165; Emory's Rep. 108. Hook. Fl. Bor.-Am. 1. 140. Audubon, Birds, t. **104**. Don, Mill. 2. 237. Beck, Bot. 82. Spach, Hist. Veg. 1. 258. Darlington, Fl. Cestr. 410. Torr. & Gray, Fl. 1. 294. Eat. & Wr. 397. Loud. Arbor. 2. 609, t. **83-86**. Emerson, Mass. Trees, 400, & 2 ed. 2. 522, **t. 46, 47**. Dietr. 4. 1053. Curtis, Bot. N. Car. 48. Chapman, 94. Lemaire, Ill. Hort. 12, **t. 427**. Gray, Manual, 131. Verlot, Revue Hort. 1873, 152 & **fig.**

Pseudacacia odorata. Moench, 145.

R. viscosa. Vent. Hort. Cels, **t. 4.** Willd. Spec. 3. 1131; Enum. 769. Michx. Fl. 2. 65. Nouv. Duham. 2. 64, **t. 17.** Poir. Dict. 6. 222. Barton, Bot. Appx. 29, t. **21**. Persoon, 2. 311. Ait. f. Hort. Kew. 4. 323. Michx. f. Arbr. Amer. 3. 262, t. **2** (Sylva, 2. 15, **t. 71**). Pursh, 488. Elliott, 2. 242. DC. Prodr. 2. 262. Guimp. Ott. & Hayne, t. **65**. Spreng. Syst. 3. 247. Don, Mill. 2. 236. Spach, Hist. Veg. 1. 260. Torr. & Gray, Fl. 1. 295. Eat. & Wr. 397. Loud. Arbor. 2. 626, **t. 87** & **fig. 306**. Dietr. 4. 1053. Curtis, l. c. 49. Chapman, 94. Gray, Manual, 131.

R. glutinosa. Curtis, Bot. Mag. **t. 560**.

SCHRANKIA angustata. Torr. & Gray, Fl. 1. 400. Gray, Am. Journ. Sci. 2. 42. 49 & Lond. Journ. Bot. 3. 242; Pl. Fendl. 38; Manual, 146; Hall's Pl. Texas, Walp. Rep. 1. 884. Benth. in Hook. Journ. Bot. 4. 415; Rev. Mim. in Trans. Linn. Soc. 30. 442. Engelm. & Gray, Pl. Lindh. 35. Dietr. 4. 477. Engelm. in Wislizen. Rep. 3. Chapman, 116.

S. uncinata. Elliott, 2. 158, not Willd. DC. Prodr. 2. 443. Bertol. Bot. Misc. 16. 25; fide Gray, Am. Journ. Sci. 2. 24. 287.

Var. **brachycarpa.** Chapman, 116.

S. platycarpa. Gray, Pl. Lindh. 189; Pl. Wright. 1. 67; Hall's Pl. Texas, 8. Walp. Ann. 2. 451. Torr. & Gray, Pac. R. Rep. 2. 164. Wood, Bot. & Fl. 93.

Mimosa Rameriana. Scheele, Linnæa, 21. 456. Walp. Ann. 2. 451.

S. uncinata. Willd. Spec. 4. 1043. Ait. f. Hort. Kew. 5. 457. Pursh, 305. Nutt. Genera, 2. 81. James, Cat. 185. Spreng. Syst. 2. 208. Torrey, Ann. Lyc. N. Y. 2. 192; Nicol. Rep. 149; Emory's Rep. 139 & 408; Marcy's Rep. 285; Pac. R. Rep. 4. 82; Mex. Bound. 61. Don, Mill. 2. 397. Hook. Comp. Bot. Mag. 1. 24. Rat. New Flora, 1. 43. Torr. & Gray, Fl. 1. 400; Pac. R. Rep. 2. 126. Eat. & Wr. 4[illegible] Gray, Am. Journ. Sci. 1. 42. 49 & Lond. Journ. Bot. 3. 242; Pac. R. Rep. 12. 42 Manual, 146; Hall's Pl. Texas, 8. Benth. in Hook. Journ. Bot. 4. 415; Rev. Mi[illegible] 441. Dietr. 4. 477. Engelm. in Wisliz. Rep. 3; Pl. Upp. Miss. 190. Chapman 116. Wood, Bot. & Fl. 82. Porter, Fl. Col. 33.

Mimosa Intsia. Walter, 252.

Mimosa horridula. Vent. Choix Pl. Cels, **t. 28.** Michx. Fl. 2. 254. Poir. Suppl. 1. 56. Kon. & Sims, Ann. Bot. 2. 364.

Leptoglottis Nuttallii. DC. Mem. Legum. 451. Torr. & Gray, Fl. 1. 695.

SESBANIA Cavanillesii. (The genus *Daubentonia* is referred to *Sesbania* by Benth. in Mart. Fl. Bras. 15[1]. 43, and by Benth. & Hook. Gen. Pl. 1. 502.)

Æschynomene longifolia. Cav. Icon. 4, **t. 315.**

Piscidia longifolia. Willd. Spec. 3. 920. Spreng. Syst. 2. 220.

Daubentonia longifolia. DC. Mem. Legum. 286; Prodr. 2. 267. Don, Mill. 2. 2[illegible] Torr. & Gray, Fl. 1. 293 & 687. Engelm. & Gray, Pl. Lindh. 6. Torrey, Mex. Bound. 51.

S. GRANDIFLORA. Poir. Dict. 7. 127. Benth. & Hook. Gen. Pl. 1. 502.

Agati grandiflora, Desv. Torr. & Gray, Fl. 1. 293. Eat. & Wr. 116.

S. macrocarpa. Muhl. Cat. 68. Nutt. Genera, 2. 112. Barton, Fl. N. Am. 1 [illegible] **t. 28.** Elliott, 2. 221. DC. Prodr. 2. 265. Don, Mill. 2. 241. Torr. & Gray, Fl. 1. 293 & 687. Eat. & Wr. 423. Dietr. 4. 1055. Gray, Pl. Lindh. 172; Pl. Thurb. 302. Torrey, Emory's Rep. 138; Mex. Bound. 51. Chapman, 97. Smith, Proc. Acad. Philad. 1867, 19. Wood, Bot. & Fl. 93.

Darwinia exaltata. Raf. Fl. Lud. 106. Poir. in Lam. Ill. 3. 676.

S. picta, var. Spreng. Syst. 4. 284.

S. (?) **Thurberi.**

Daubentonia (!) *Thurberi.* Gray, Pl. Thurb. 313. Walp. Ann. 4. 403. Torr. Mex. Bound. 51.

S. vesicaria. Elliott, 2. 222. Eat. & Wr. 423. Benth. & Hook. Gen. Pl. 1. 50[illegible]

Robinia vesicaria. Jacq. Icon. Rar. 1, **t. 148.**

Phaca Floridana. Willd. Spec. 3. 1252. Persoon, 2. 331. Spreng. Syst. [illegible]

Æschynomene platycarpa. Michx. Fl. 2. 75. Poir. Suppl. 4. 75.

Sesbania platycarpa. Persoon, 2. 316. Nutt. Genera, 2. 112.

Colutea floribunda. Poir. Suppl. 1. 562.

Dalbergia polyphylla. Poir. Suppl. 2. 446.

Sesbania disperma. Pursh, 485.

Glottidium Floridanum. Desv. Journ. Bot. 3. 119, **t. 1.** DC. Prodr. 2. 2[illegible] Mill. 2. 242. Hook. Comp. Bot. Mag. 1. 22. Torr. & Gray, Fl. 1. 294. D[illegible] 4. 1054. Torrey, Mex. Bound. 51. Chapman, 97. Smith, Proc. Acad. Ph[illegible] 1867, 19. Gray, Hall's Pl. Texas, 7.

SOPHORA affinis. Torr. & Gray, Fl. 1. 300. Leavenworth, Am. Journ. S[illegible] 1. 49. 130. Gray, Pl. Lindh. 178; Hall's Pl. Texas, 7. Scheele, Roem. Texas. [illegible]

Stylosanthes affine. Walp. Rep. 1. 897.

S. Arizonica. Watson, Proc. Am. Acad. 11. 135. Brew. & Wats. Bot. C[illegible] 1. 114.

S. speciosa. Torrey, Pac. R. Rep. 4. 82.

S. secundiflora. Lag. in DC. Cat. Hort. Monsp. 118. DC. Prodr. 2. 96. Don, Mill. 2. 110. Gray, Pl. Wr. 1. 54. Revue Hort. 4. 3. 201, t. **11.** Benth. & Hook. Gen. Pl. 1. 555.

Broussonetia secundiflora. Orteg. Dec. 5. 61, t. **7.**

Virgilia secundiflora. Cav. Icon. t. **401.**

Agostinnis secundiflora. Raf. New Sylv. 3. 86.

Dermatophyllum speciosum. Scheele, Linnæa, 21. 458.

S. speciosa. Benth. in Gray, Pl. Lindh. 178. Gray, Pl. Fendl. 38; Pl. Wright. 1. 54; Hall's Pl. Texas, 7. Walp. Ann. 2. 439. Torrey, Mex. Bound. 58. Young, Fl. Texas, 242.

S. sericea. Nutt. Genera, 1. 280. James, Cat. 181. DC. Prodr. 2. 96. Spreng. Syst. 2. 346. Torrey, Ann. Lyc. N. Y. 2. 174, Mex. Bound. 58. Don, Mill. 2. 110. Torr. & Gray, Fl. 1. 390; Pac. R. Rep. 2. 103. Dietr. 2. 1198. Eat. & Wr. 438. Nees, Pl. Neuwied. 6. Hook. in Lond. Journ. Bot. 6. 246. Gray, Pl. Fendl. 38; Pl. Wright. 1. 54 & 2. 49; Pl. Thurb. 299; Pac. R. Rep. 12. 42; Ives's Rep. 11; Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 61. Engelm. in Wislizen. Rep. 3; Pl. Upp. Miss. 190. Porter, Hayd. Rep. 1870, 475; Fl. Col. 31. Rothrock, Pl. Wheeler, 37.

Astragalus carnosus. Pursh, 740, excl. fruit. Poir. Suppl. 5. 564.

Patrinia sericea. Raf. in Journ. Phys. 1819, 97.

S. stenophylla. Gray, Ives's Rep. 10.

S. tomentosa. Linn. Spec. 373. See syn. in Benth. Mart. Fl. Bras. 15. 314; Grisb. Fl. Brit. W. Ind. 293. — Torr. & Gray, Fl. 1. 389. Torrey, Mex. Bound. 58. Chapman, 113. Wood, Bot. & Fl. 100.

Zanthoxis paniculata. Raf. New Sylv. 3. 84.

STYLOSANTHES elatior. Swartz, Act. Holm. 1789, 283, t. **11**, fig. **2.** Willd. Spec. 3. 1167. Poir. Dict. 7. 481. Persoon, 2. 317. Nutt. Genera, 2. 106. Elliott, 2. 262. DC. Prodr. 2. 318. Spreng. Syst. 3. 310. Torrey, Compend. 266; Fl. N. Y. 1. 174, t. **27.** Don, Mill. 2. 281. Beck, Bot. 83. Hook. Comp. Bot. Mag. 1. 22. Torr. & Gray, Fl. 1. 354; Pac. R. Rep. 2. 103. Eat. & Wr. 446. Dietr. 4. 1139. Bertol. Bot. Misc. 9. 12, t. **5**, fig. **2.** Chapman, 100. Gray, Manual, 138; Hall's Pl. Texas, 7.

Trifolium biflorum. Linn. Spec. 773. Hill, Veg. Syst. 22, t. **34**, fig. **5.**

Arachis aprica. Walter, 182.

S. hispida. Michx. Fl. 275, not Richard. Pursh, 480.

TEPHROSIA ambigua. Chapman, 96. Wood, Bot. & Fl. 95.

T. ambigua. M. A. Curtis, Journ. Bost. Nat. Hist. Soc. 1. 121. Walp. Rep. 1. 677. Dietr. 4. 1043.

T. hispidula, var. *β.* Torr. & Gray, Fl. 1. 297.

T. angustissima. Shuttleworth; Chapman, 96.

T. chrysophylla. Pursh, 489. Elliott, 2. 246. Torr. & Gray, Fl. 1. 297. Eat. & Wr. 449. Dietr. 4. 1045. Chapman, 95. Wood, Bot. & Fl. 95.

T. prostrata. Nutt. Genera, 2. 120. DC. Prodr. 2. 250. Spreng. Syst. 3. 234. Don, Mill. 2. 229.

T. hispidula. Persoon, 2. 329. Pursh, 489. Nutt. Genera, 2. 119. Elliott, 2. 245. DC. Prodr. 2. 250. Don, Mill. 2. 229. Hook. Comp. Bot. Mag. 1. 22. Torr. & Gray, Fl. 1. 296. Eat. & Wr. 449. Walp. Rep. 1. 677. Dietr. 4. 1045. Chapman, 95. Gray, Manual, 131.

Cracca hispidula. Michx. Fl. 2. 68. Poir. Suppl. 5. 687. Curtis, l. c. 122.

T. gracilis. Nutt. Genera, 2. 119. DC. Prodr. 2. 250. Spreng. Syst. 3. 234. Don, Mill. 2. 229. Wood, Bot. & Fl. 95.

? *T. elegans.* Nutt. in Journ. Acad. Philad. 7. 165. Torr. & Gray, Fl. 1. 295. Eat. & Wr. 449.

T. leiocarpa. Gray, Pl. Wright. 2. 36. Walp. Ann. 4. 489.

T. leucantha. HBK. Nov. Gen. 6. 460, **t. 577.** DC. Prodr. 2. 252. Spreng. Syst. 4². 275. Don, Mill. 2. 331. Dietr. 4. 1049. Gray, Pl. Wright. 2. 36. Seem. Bot. Herald, 280. Torrey, Mex. Bound. 51.

T. Lindheimeri. Gray, Pl. Lindh. 172; Pl. Wright. 2. 36. Walp. Ann. 2. 366. Torrey, Mex. Bound. 51.

T. onobrychoides. Nutt. in Journ. Acad. Philad. 7. 104. Torr. & Gray, Fl. 1. 296. Eat. & Wr. 449. Walp. Rep. 1. 677. Engelm. & Gray, Pl. Lindh. 6 & 32. Dietr. 4. 1044. Gray, Hall's Pl. Texas, 7.

T. angustifolia & *T. multiflora.* Featherman, Bot. Rep. Louisiana Univ. 1870, 70; fide Gray, Am. Journ. Sci. 3. 2. 307.

T. spicata. Torr. & Gray, Fl. 1. 296. Dietr. 4. 1044. Lesqx. Fl. Ark. 356. Chapman, 95. Gray, Manual, 131.

Galega spicata. Walter, 188.

Galega villosa. Michx. Fl. 2. 67. Poir. Suppl. 5. 687.

T. villosa. Persoon, 2. 329.

? *Crafordia bracteata.* Raf. Speech. Sci. 1. 156. DC. Prodr. 2. 252. Don, Mill. 2. 467. Beck, Bot. 93. Torr. & Gray, Fl. 1. 405.

T. paucifolia. Nutt. Genera, 2. 119. Elliott, 2. 246. DC. Prodr. 2. 250. Spreng. Syst. 3. 234. Don, Mill. 2. 229. Hook. Comp. Bot. Mag. 1. 22. Eat. & Wr. 449.

? *T. hispida.* DC. Prodr. 2. 250. Don, Mill. 2. 229.

Galega paucifolia. Curtis, Journ. Bost. Nat. Hist. Soc. 1. 122.

T. mollissima. Bertol. Bot. Misc. 9. 10, **t. 3, fig. 2** (Bot. Zeit. 9. 902); fide Gray, Am. Journ. Sci. 2. 14. 115.

T. tenella. Gray, Pl. Wright. 2. 36. Walp. Ann. 4. 489. Torrey, Mex. Bound. 51. — Referred to *T. leptostachya*, DC., by Benth. in Mart. Fl. Bras. 15². 48.

T. Virginiana. Persoon, 2. 329. Pursh, 489. Nutt. Genera, 2. 119. Elliott, 2. 245. Bigel. Fl. Bost. 2 ed. 278. DC. Prodr. 2. 250. Spreng. Syst. 3. 234. Torrey, Compend. 271; Fl. N. Y. 1. 167; Marcy's Rep. 283. Hook. Fl. Bor.-Am. 1. 150. Comp. Bot. Mag. 1. 22. Don, Mill. 2. 229. Beck, Bot. 81. Spach, Hist. Veg. 1. 251. Torr. & Gray, Fl. 1. 295; Pac. R. Rep. 2. 162. Eat. & Wr. 448. Walp. Rep. 1. 677. Engelm. & Gray, Pl. Lindh. 6. Dietr. 4. 1044. Parry, Pl. Minn. 6. Seem. Bot. Herald, 280. Chapman, 95. Gray, Manual, 31; Hall's Pl. Texas, 7.

Galega Virginiana. Linn. Spec. 2 ed. 1062. Hill, Veg. Syst. 21, **t. 55, fig. 1.** Lam. Dict. 2. 597. Walter, 187. Willd. Spec. 3. 1244. Michx. Fl. 2. 67. Ait. Hort. Kew. 4. 355.

Var. **holosericea.** Torr. & Gray, Fl. 1. 296.

T. holosericea. Nutt. in Journ. Acad. Philad. 7. 105.

THERMOPSIS Californica. Watson, Proc. Am. Acad. 11. 126. Brew. & Wats. Bot. Calif. 1. 113.

T. macrophylla. Torrey, Pac. R. Rep. 4. 81; Bot. Wilkes, 282. Newberry, Pac. R. Rep. 6. 71 ? Boland. Cat. 10.

T. fabacea. Torrey, Mex. Bound. 58.

T. Caroliniana. M. A. Curtis, Am. Journ. Sci. 1. 44. 80. Gray, Chloris Bor. Am. 42, **t. 7.** Walp. Ann. 3. 845. Chapman, 113. Wood, Bot. & Fl. 85.

T. fraxinifolia. Curtis, Am. Journ. Sci. 1. 44. 81. Gray, Chloris Bor.-Am. 45, t. 8. Walp. Ann. 3. 845. Chapman, 113. Wood, Bot. & Fl. 85.

Baptisia mollis. Nutt. Genera, 1. 281, not DC. Torr. & Gray, Fl. 1. 695. Dietr. 2. 1500. Eat. & Wr. 154.

Baptisia fraxinifolia. Nutt. under *B. mollis*, Torr. & Gray, Fl. 1. 387.

T. macrophylla. Hook. & Arn. Bot. Beechey, 329. Torr. & Gray, Fl. 1. 388. Walp. Rep. 1. 563. Gray, Mem. Am. Acad. 6. 385. Watson, Proc. Am. Acad. 11. 126. Brew. & Wats. Bot. Calif. 1. 113.

T. mollis. Curtis; Gray, Chlor. Bor.-Am. 47, **t. 9.** Chapman, 113. Wood, Bot. & Fl. 85.

Podalyria mollis. Michx. Fl. 1. 264. Persoon, 1. 453. Pursh, 308. Poir. Suppl. 4. 442.

Baptisia mollis. DC. Prodr. 2. 100. Spreng. Syst. 4². 171. Don, Mill. 2. 114. Torr. & Gray, Fl. 1. 387. Curtis, Am. Journ. Sci. 1. 44. 81.

T. montana. Nutt.; Torr. & Gray, Fl. 1. 388. Walp. Rep. 1. 562. Torrey, Frem. Rep. 89 & 314; Pac. R. Rep. 4. 81. Hook. in Lond. Journ. Bot. 6. 216. Gray, Pl. Fendl. 38. Watson, Proc. Am. Acad. 11. 126. Brew. & Wats. Bot. Calif. 1. 126.

T. fabacea. Hook. Fl. Bor.-Am. 1. 128, not DC.; Bot. Mag. **t. 3611**; Lond. Journ. Bot. 6. 216. Lindl. Bot. Reg. 15, **t. 1272**. Lodd. Bot. Cab. **t. 1856**. Torr. & Gray, Fl. 1. 388. Gray, Pl. Fendl. 38; Ives's Rep. 11; Mem. Am. Acad. 6. 385. Coulter, Hayd. Rep. 1872, 764. Torrey, Bot. Wilkes, 282.

T. macrophylla, var. *β.* Torr. & Gray, Fl. 1. 388.

T. fabacea, var *montana.* Gray, Proc. Acad. Philad. 1863, 60; Proc. Am. Acad. 1. 379. Watson, King's Rep. 5. 53; Pl. Wheeler, 7. Porter, Hayd. Rep. 1870, 475; 1871, 481; Fl. Col. 19. Rothr. Pl. Wheeler, 37.

T. rhombifolia. Richard. in Frankl. Journ. 13. DC. Prodr. 2. 99. Torrey, Ann. N. Y. 2. 174; Frem. Rep. 314. Hook. Fl. Bor.-Am. 1. 128, **t. 47**; Lond. Journ. 6. 216. Don, Mill. 2. 113. Torr. & Gray, Fl. 1. 388. Dietr. 2. 1500. Nees. & Nenwied. 6. Engelm. Pl. Upp. Miss. 190. Gray, Pac. R. Rep. 12. 42; Mem. Am. Acad. 6. 385; Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 60. Porter, Hayd. Rep. 1870, 475; Fl. Col. 19. Brew. & Wats. Bot. Calif. 1. 114.

Cytisus rhombifolius. Nutt. in Fras. Cat. 1813. Pursh, 741. Poir. Suppl. 5. 649. Hornbury, Cat. 38.

Podalyria rhombifolia. Nutt. Genera, 1. 282. James, Cat. 181. Spreng. Syst. 2. 238. Eat. & Wr. 450.

TRIFOLIUM AGRARIUM, Linn. Michx. Fl. 2. 59. Pursh, 478. Torrey, Comp. 296. Fl. N. Y. 1. 170. Beck, Bot. 33. Darling, Fl. Cestr. 408. Torr. & Gray, Fl. 1. 317. Eat. & Wr. 456. Gray, Manual, 127.

T. altissimum. Dougl.; Hook. Fl. Bor.-Am. 1. 130, **t. 43**, Lond. Journ. Bot. 6. 216. Don, Mill. 2. 192. Torr. & Gray, Fl. 1. 332. Eat. & Wr. 457. Walp. Rep. 1. 642. Dietr. 4. 1063. Torrey, Bot. Wilkes, 270. Watson, Proc. Am. Acad. 11. 128. Brew. & Wats. Bot. Calif. 1. 128.

T. amphianthum. Torr. & Gray, Fl. 1. 316. Eat. & Wr. 458. Walp. Rep. 1. 640. Dietr. 4. 1004. Gray, Pl. Lindh. 176; Hall's Pl. Texas, 7. Watson, Proc. Am. Acad. 11. 129.

T. Hormirianum. Scheele, Linnæa, 21. 460. Walp. Ann. 2. 351.

T. amplectens. Torr. & Gray, Fl. 1. 319. Hook. & Arn. Bot. Beechey, 330, t. 78. Eat. & Wr. 458. Walp. Rep. 1. 645. Dietr. 4. 1005. Torrey, Pac. R. Rep. 4. 78; Mex. Bound. 54. Gray, Proc. Am. Acad. 6. 523. Boland. Cat. 9. Watson, Proc. Am. Acad. 11. 112 & 131. Brew. & Wats. Bot. Calif. 1. 132.

T. diversifolium. Nutt. Pl. Gambel. in Proc. Acad. Philad. 4. 9 & Journ. Acad. Philad. 1. 152.

T. Andersoni. Gray, Proc. Am. Acad. 6. 522. Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 60; Proc. Am. Acad. 11. 127. Brew. & Wats. Bot. Calif. 1. 127.

T. andinum. Nutt.; Torr. & Gray, Fl. 1. 314. Eat. & Wr. 458. Walp. Rep. 1. 643. Dietr. 4. 1003. Hook. in Lond. Journ. Bot. 6. 209. Watson, King's Rep. 5. 60, **t. 8**; Proc. Am. Acad. 11. 130.

T. ARVENSE, Linn. Walter, 183. Michx. Fl. 2. 59. Pursh, 478. Bigel. Fl. Bost. 168. Elliott, 2. 203. Torrey, Compend. 265; Fl. N. Y. 1. 168. Hook. Fl. Bor.-Am. 1. 131. Beck, Bot. 79. Darling. Fl. Cestr. 406. Torr. & Gray, Fl. 1. 313. Eat. & Wr. 456. Chapman, 91. Gray, Manual, 127.

T. barbigerum. Torrey, Pac. R. Rep. 4. 79. Boland. Cat. 9. Watson, Proc. Am. Acad. 11. 131. Brew. & Wats. Bot Calif. 1. 131.

Var. **Andrewsii.** Gray, Proc. Am. Acad. 7. 335. Brew. & Wats. l. c.

T. Beckwithii. Brewer; Watson, Proc. Am. Acad. 11. 128. Brew. & Wats. Bot. Calif. 1. 128.

T. altissimum. Torr & Gray, Pac. R. Rep. 2. 120.

T. Bejariense. Moric. Pl. Nouv. 2, **t. 2** (Mem. Genève, 6. 530). Walp. Rep. 1. 646. Dietr. 4. 1006. Gray, Pl. Wright. 1. 50; Hall's Pl. Texas, 7. Torrey, Mex. Bound. 54. Watson, Proc. Am. Acad. 11. 130.

T. macrocalyx. Hook. Icon. **t. 285.** Torr. & Gray, Fl. 1. 691. Dietr. 4. 1004. Young, Fl. Texas, 217.

T. bifidum. Gray, Proc. Am. Acad. 6. 522; Proc. Calif. Acad. 3. 102. Boland. Cat. 9. Watson, Proc. Am. Acad. 11. 129. Brew. & Wats. Bot. Calif. 1. 129.

T. Bolanderi. Gray, Proc. Am. Acad. 7. 335. Watson, same, 11. 128. Brew. & Wats. Bot. Calif. 1. 128.

T. Brandegei. Watson, Proc. Am. Acad. 11. 130, & in Brandegee, Fl. S. W. Col. 234.

T. Breweri. Watson, Proc. Am. Acad. 11. 131. Brew. & Wats. Bot. Calif. 1. 219.

T. Carolinianum. Michx. Fl. 2. 58. Persoon, 2. 348. Poir. Dict. 8. 2. Pursh, 477. Elliott, 2. 200. Seringe, DC. Prodr. 2. 201. Spreng. Syst. 3. 211. Don, Mill. 2. 190. Torr. & Gray, Fl. 1. 316. Eat. & Wr. 458. Dietr. 4. 1004. Chapman, 91. Smith, Proc. Acad. Philad. 1867, 18. Gray, Manual, 127; Hall's Pl. Texas, 7. Wood. Bot. & Fl. 91. Watson, Proc. Am. Acad. 11. 129.

? *T. comosum.* Linn. Spec. 767. Willd. Spec. 3. 1369. Persoon, 2. 349. Ait. Hort. Kew. 4. 382. Seringe, DC. Prodr. 2. 206. Don, Mill. 2. 194.

? *T. repens.* Walter, 183.

? *T. obcordatum.* Desv. Journ. Bot. 3. 76. Poir. Suppl. 5. 336.

T. umbellatum. Seringe, DC. Prodr. 2. 199. Don, Mill. 2. 188. Hook. Comp. Bot. Mag. 1. 22.

T. oxypetalum. Fisch. & Mey. Ind. Sem. h. Petrop. 2. 26 (Litt.-Ber. zu Linnæa 1837, 122; Ann. Sci. Nat. 2. 5. 182).

T. ciliatum. Nutt. Pl. Gambel. in Proc. Acad. Philad. 4. 8, & Journ. Acad. Philad. 1. 152, **t. 23.** Boland. Cat. 9. Watson, Proc. Am. Acad. 11. 129. Brew. & Wats. Bot. Calif. 1. 129.

T. ciliolatum. Benth. Pl. Hartw. 304. Walp. Ann. 2. 351. Torrey, Pac. R. Rep. 4. 78. Gray, Proc. Am. Acad. 8. 379.

T. cyathiferum. Lindl. Bot. Reg. under t. 1070. Hook. Fl. Bor.-Am. 1. 133, t. **50**; Lond. Journ. Bot. 6. 209. Don, Mill. 2. 185. Torr. & Gray, Fl. 1. 320. Eat. & Wr. 457. Walp. Rep. 1. 645. Dietr. 4. 1005. Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 62; Proc. Am. Acad. 11. 131. Gray, Proc. Am. Acad. 8. 379. Torrey, Bot. Wilkes, 272. Brew. & Wats. Bot. Calif. 1. 131.

T. dasyphyllum. Torr. & Gray, Fl. 1. 315. Eat. & Wr. 458. Walp. Rep. 1. 643. Dietr. 4. 1003. Gray, Am. Journ. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 59. Watson, King's Rep. 5. 60; Proc. Am. Acad. 11. 130. Porter, Fl. Col. 21. Rothr. Pl. Wheeler, 36.

T. depauperatum. Desv. Journ. Bot. 4. 69, t. **32**. Poir. Suppl. 5. 335. Seringe, DC. Prodr. 2. 203. Spreng. Syst. 3. 218. Gay, Fl. Chil. 2. 74. Gray, Proc. Am. Acad. 6. 523. Watson, same, 11. 131. Brew. & Wats. Bot. Calif. 1. 132.

T. stenophyllum. Nutt. Pl. Gambel. ll. cc. 4. 8, & 1. 151.

T. eriocephalum. Nutt.; Torr. & Gray, Fl. 1. 313 & 690. Eat. & Wr. 457. Walp. Rep. 1. 642. Hook. in Lond. Journ. Bot. 6. 208. Boland. Cat. 9. Gray, Proc. Am. Acad. 8. 379. Watson, same, 11. 128. Brandegee, Fl. S. W. Col. 234. Brew. & Wats. Bot. Calif. 1. 127.

T. fucatum. Lindl. Bot. Reg. 22, t. **1883**. Hook. & Arn. Bot. Beechey, 332. Torr. & Gray, Fl. 1. 319 & 692. Eat. & Wr. 458. Walp. Rep. 1. 645. Dietr. 4. 1005. Benth. Pl. Hartw. 304. Torrey, Pac. R. Rep. 4. 16 & 78; Mex. Bound. 54. Boland. Cat. 9. Watson, Proc. Am. Acad. 11. 131. Brew. & Wats. Bot. Calif. 1. 131.

T. physopetalum. Fisch. & Mey. Ind. Sem. h. Petrop. 3. 47 (Litt.-Ber. zu Linnæa, 1838, 107).

T. Gambelii. Nutt. Pl. Gambel. ll. cc.

T. gracilentum. Torr. & Gray, Fl. 1. 316. Hook. & Arn. Bot. Beechey, 330. Eat. & Wr. 458. Walp. Rep. 1. 643. Dietr. 4. 1004. Torrey, Pac. R. Rep. 4. 78. Boland. Cat. 9. Gray, Proc. Am. Acad. 8. 379. Watson, same, 11. 129. Brew. & Wats. Bot. Calif. 1. 129.

T. denudatum. Nutt. Pl. Gambel. in Proc. Acad. Philad. 4. 9, & Journ. Acad. Philad. 1. 152, t. **24**.

T. gymnocarpon. Nutt.; Torr. & Gray, Fl. 1. 320. Eat. & Wr. 457. Walp. Rep. 1. 646. Dietr. 4. 1006. Watson, King's Rep. 5. 62, t. **8**; Proc. Am. Acad. 11. 129.

T. subcaulescens. Gray, Ives's Rep. 10. Watson, King's Rep. 5. 59, in part.

T. involucratum. Willd. Spec. 3. 1372. Poir. Dict. 8. 18. HBK. Nov. Gen. 6. 392. Kunth, Pl. Legum. 186, t. **53**. DC. Prodr. 2. 204. Don, Mill. 2. 186. Torr. & Gray, Fl. 1. 692. Benth. Pl. Hartw. 10. Eat. & Wr. 457. Dietr. 4. 1004. Gray, Pl. Fendl. 33; Pl. Wright. 2. 41. Torrey, Sitgr. Rep. 158; Pac. R. Rep. 4. 78; Mex. Bound. 54. Porter, Fl. Col. 21. Rothr. Pl. Wheeler, 36. Watson, Proc. Am. Acad. 11. 130. Brew. & Wats. Bot. Calif. 1. 130.

T. Wormskioldii. Lehm. Ind. Sem. h. Hamb. 1825, 17; Pug. Pl. Nov. 1. 36; Act. Acad. Leop. 14. 823, t. **45**. Spreng. Syst. 3. 209. Torr. & Gray, Fl. 1. 692. Don, Mill. 2. 185. Walp. Rep. 1. 645. Dietr. 4. 1005.

T. Willdenovii. Spreng. Syst. 3. 208.

T. radiatum. Lindl. Bot. Reg. 13, t. **1070**. Lodd. Bot. Cab. t. **1421**. Hook. Fl. Bor.-Am. 1. 133. Don, Mill. 2. 185. Vogel, Linnæa, 10. 590. Torr. & Gray, Fl. 1. 317 & 691. Hook. & Arn. Bot. Beechey, 137, & 331 in part. Eat. & Wr. 457. Walp. Rep. 1. 644. Dietr. 4. 1004. Durand, Pl. Pratten. 86. Newberry, Pac. R. Rep. 6. 70. Cooper, same, 12. 58. Torrey, Mex. Bound. 54. Boland. Cat. 9.

Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 61. Gray, Proc. Am. Acad. 8. 379, in part.

T. spinulosum. Dougl.; Hook. Fl. Bor.-Am. 1. 133. Don, Mill. 2. 469. Torr. & Gray, Fl. 1. 318. Eat. & Wr. 457. Walp. Rep. 1. 644. Dietr. 4. 1004. Torrey, Mex. Bound. 54; Bot. Wilkes, 272. Boland. Cat. 9.

Var. **heterodon.** Watson, Proc. Am. Acad. 11. 130. Brew. & Wats. Bot. Calif. 1. 130.

T. heterodon. Torr. & Gray, Fl. 1. 318. Walp. Rep. 1. 644. Dietr. 4. 1004. Torrey, Pac. R. Rep. 4. 78; Mex. Bound. 54. Boland. Cat. 9.

T. fimbriatum, var. β. Hook. & Arn. Bot. Beechey, 331.

T. fimbriatum. Benth. Pl. Hartw. 304.

T. Kingii. Watson, King's Rep. 5. 59; Proc. Am. Acad. 11. 128. Parry, Am. Naturalist, 9. 269. Brew. & Wats. Bot. Calif. 1. 128.

T. Haydeni. Porter, Hayd. Rep. 1871, 480. Coulter, same, 1872, 764.

T. Lemmoni. Watson, Proc. Am. Acad. 11. 127. Brew. & Wats. Bot. Calif. 1. 127.

T. longipes. Nutt.; Torr. & Gray, Fl. 1. 314 & 691. Eat. & Wr. 458. Walp. Rep. 1. 643. Dietr. 4. 1003. Hook. in Lond. Journ. Bot. 6. 209. Newberry, Pac. R. Rep. 6. 70. Gray, Proc. Acad. Philad. 1863, 59. Anderson, Cat. Pl. Nev. 119. Watson, King's Rep. 5. 59; Proc. Am. Acad. 11. 128. Porter, Hayd. Rep. 1871. 480; Fl. Col. 20. Coulter, Hayd. Rep. 1872, 763. Torrey, Bot. Wilkes, 271. Brew. & Wats. Bot. Calif. 1. 128.

Var. (?) **latifolium.** Hook. in Lond. Journ. Bot. 6. 209. Watson, Proc. Am. Acad. 11. 128. Brew. & Wats. l. c.

T. longipes, var. *pygmæum.* Gray. Ives's Rep. 9.

Var. (?) **brachypus.**

T. subcaulescens. Watson, King's Rep. 5. 59, in part.

T. eriocephalum. Parry, Am. Naturalist, 9. 269, in part.

T. Macræi. Hook. & Arn. Bot. Misc. 3. 179; Bot. Beechey, 330. Torr. & Gray. Fl. 1. 690. Walp. Rep. 1. 646. Gay, Fl. Chil. 2. 73. Torrey, Pac. R. Rep. 4. 78; Mex. Bound. 54. Boland. Cat. 9. Gray, Proc. Am. Acad. 8. 379. Watson, Proc. Am. Acad. 11. 129. Brew. & Wats. Bot. Calif. 1. 129.

T. albopurpureum. Torr. & Gray, Fl. 1. 313. Eat. & Wr. 458. Walp. Rep. 1. 643. Dietr. 4. 996. Benth. Pl. Hartw. 304. Newberry, Pac. R. Rep. 6. 70.

Var. **dichotomum.** Brewer; Watson, l. c. Brew. & Wats. l. c.

T. dichotomum. Hook. & Arn. Bot. Beechey, 330. Torr. & Gray, Fl. 1. 690. Walp. Rep. 1. 643. Dietr. 4. 1003. Torrey, Pac. R. Rep. 4. 78. Boland. Cat. 9.

T. MEDIUM, Linn. Torr. & Gray, Fl. 1. 314. Bigel. Fl. Bost. 3 ed. 289. Eat. & Wr. 458. Hook. f. Arct. Pl. 289. Gray, Manual, 127.

T. Pennsylvanicum. Willd. Enum. 793. Pursh, 478. Poir. Suppl. 5. 336. Seringe, DC. Prodr. 2. 196. Torrey, Compend. 265. Hook. Fl. Bor. Am. 1. 131. Don, Mill. 2. 185. Beck, Bot. 79. Torr. & Gray, Fl. 1. 691.

T. megacephalum. Nutt. Genera, 2. 105. Seringe, DC. Prodr. 2. 204. Hook. Fl. Bor.-Am. 1. 132. Don, Mill. 2. 192. Torr. & Gray, Fl. 1. 315. Dietr. 4. 1003. Torrey, Bot. Wilkes, 271. Watson, Pl. Wheeler, 7; Proc. Am. Acad. 11. 127. Brew. & Wats. Bot. Calif. 1. 131.

Lupinaster macrocephalus. Pursh, 479, t. **23.** Eat. & Wr. 306.

T. macrocephalum. Poir. Suppl. 5. 336.

Pentaphyllum macrocephalum. Spreng. Syst. 3. 286.

T. microcephalum. Pursh, 478. Poir. Suppl. 5. 336. Seringe, DC. Prodr. 2. 207. Spreng. Syst. 3. 216. Hook. Fl. Bor.-Am. 1. 132, excl. var.; Lond. Journ. Bot. 6. 209. Don, Mill. 2. 186. Torr. & Gray, Fl. 1. 317. Hook. & Arn. Bot. Beechey, 330. Eat. & Wr. 458. Dietr. 4. 1004. Torrey, Pac. R. Rep. 4. 78; Mex. Bound. 54; Bot. Wilkes, 271. Cooper, Pac. R. Rep. 12. 58. Gray, Proc. Am. Acad. 6. 524 & 8. 379. Boland. Cat. 9. Watson, King's Rep. 5. 61; Proc. Am. Acad. 11. 114 & 131. Brew. & Wats. Bot. Calif. 1. 131.

T. microdon. Hook. & Arn. Bot. Misc. 3. 180; Bot. Beechey, 330, **t. 79.** Torr. & Gray, Fl. 1. 691. Walp. Rep. 1. 644. Gay, Fl. Chil. 2. 76. Dietr. 4. 1005. Torrey, Pac. R. Rep. 4. 78. Boland. Cat. 9. Gray, Proc. Am. Acad. 8. 379. Watson, same, 11. 131. Brew. & Wats. Bot. Calif. 1. 131.

T. monanthum. Gray, Proc. Am. Acad. 6. 523. Watson, Pl. Wheeler, 7; Proc. Am. Acad. 11. 131. Brew. & Wats. Bot. Calif. 1. 131.

T. pauciflorum, var. (?) *parvum.* Kellogg, Proc. Calif. Acad. 5. 54.

T. nanum. Torrey, Ann. Lyc. N. Y. 1. 35, **t. 3.** Torr. & Gray, Fl. 1. 314. Eat. & Wr. 457. Walp. Rep. 1. 643. Dietr. 4. 1003. Gray, Am. Journ. Sci. 2. 33. 409. Proc. Acad. Philad. 1863, 59. Watson, King's Rep. 5. 59; Proc. Am. Acad. 11. 128. Porter, Fl. Col. 21. Rothr. Pl. Wheeler, 36.

T. Palmeri. Watson, Proc. Am. Acad. 11. 114 & 132. Brew. & Wats. Bot. Calif. 1. 129. (Guadalupe Is.)

T. Parryi. Gray, Am. Journ. Sci. 2. 33. 409 (Bull. Soc. Bot. France, 9. 679); Proc. Acad. Philad. 1863, 59. Walp. Ann. 7. 698. Watson, King's Rep. 5. 61; Proc. Am. Acad. 11. 130. Porter, Hayd. Rep. 1870, 474; Fl. Col. 21. Coulter, Hayd. Rep. 1872, 763. Rothr. Pl. Wheeler, 36.

T. pauciflorum. Nutt.; Torr. & Gray, Fl. 1. 319. Eat. & Wr. 457. Walp. Rep. 1. 645. Gray, Proc. Am. Acad. 8. 379. Torrey, Bot. Wilkes, 272. Watson, Proc. Am. Acad. 11. 130. Brew. & Wats. Bot. Calif. 1. 130.

T. microcephalum, var. *glabrum.* Hook. Fl. Bor.-Am. 1. 132.

T. variegatum. Nutt.; Torr. & Gray, Fl. 1. 317. Eat. & Wr. 457. Walp. Rep. 1. 644. Dietr. 4. 1004. Newberry, Pac. R. Rep. 6. 70. Torrey, Mex. Bound. 54. Anderson, Cat. Pl. Nev. 119. Boland. Cat. 9. Watson, King's Rep. 5. 61. Coulter, Hayd. Rep. 1872, 764.

T. elegantum. Stend. Nomenc. 2. 707. Dietr. 4. 1005.

T. plumosum. Dougl.; Hook. Fl. Bor.-Am. 1. 130, **t. 49.** Don, Mill. 2. 192. Torr. & Gray, Fl. 1. 313. Eat. & Wr. 457. Walp. Rep. 1. 642. Dietr. 4. 996. Torrey, Bot. Wilkes, 271. Watson, Proc. Am. Acad. 11. 128. Brew. & Wats. Bot. Calif. 1. 127.

T. PRATENSE, Linn. Pursh, 478. Bigel. Fl. Bost. 271. Elliott, 2. 201. Torrey, Compend. 265; Fl. N. Y. 1. 168. Hook. Fl. Bor.-Am. 1. 131. Beck, Bot. 79. Darling. Fl. Cestr. 406. Torr. & Gray, Fl. 1. 313. Engelm. Pl. Upp. Miss. 189. Newberry, Pac. R. Rep. 6. 70. Gray, same, 12. 42; Manual, 127. Chapman, 91. Hook. f. Arct. Pl. 289. Brew. & Wats. Bot. Calif. 1. 128.

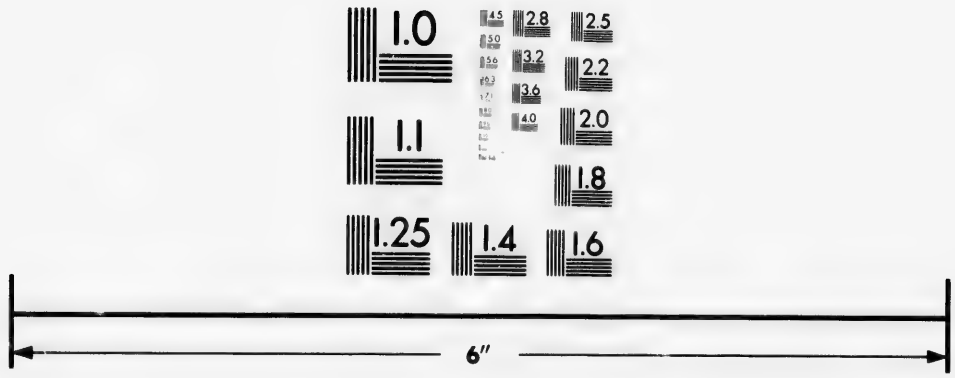
T. PROCUMBENS, Linn. Pursh, 479. Barton, Comp. Fl. Philad. 2. 74. Bigel. Fl. Bost. 2 ed. 271. Torrey, Compend. 265. Beck, Bot. 79. Darling. Fl. Cestr. 408. Torr. & Gray, Fl. 1. 316. Eat. & Wr. 457. Cooper, Pac. R. Rep. 12. 58. Chapman, 91. Gray, Manual, 128.

T. campestre. Muhl. Cat. 70. Torrey, Compend. 266. Eat. & Wr. 457.

T. minimum. Barton, Comp. Fl. Philad. 2. 74. Seringe, DC. Prodr. 2. 206. Dietr. 4. 1007.

Var. MINUS, Koch. Gray, Manual, 128.

IMAGE EVALUATION
TEST TARGET (MT-3)



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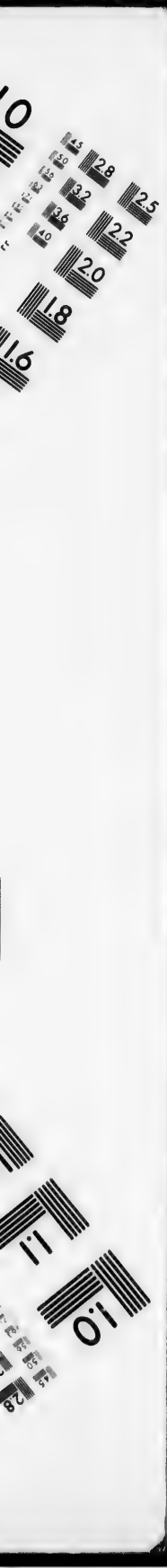

T. reflexum. Linn. Spec. 766. Hill, Veg. Syst. 22, **t. 28, fig. 2.** Walter, 183. Willd. Spec. 3. 1357. Michx. Fl. 2. 59. Persoon, 3. 348. Poir. Dict. 8. 6. Ait. f. Hort. Kew. 4. 381. Pursh, 477. Elliott, 2. 202. Seringe, DC. Prodr. 2. 201. Spreng. Syst. 3. 208. Torrey, Compend. 265; Fl. N. Y. 1. 169. Don, Mill. 2. 190. Beck, Bot. 80. Hook, Comp. Bot. Mag. 1. 22; Bot Mag. **t. 3471.** Torr. & Gray, Fl. 1. 315 & 691. Eat. & Wr. 456. Engelm. & Gray, Pl. Lindh. 7. Parry, Pl. Minn. 611. Lesqx. Fl. Ark. 355. Chapman, 91. Gray, Manual, 127; Hall's Pl. Texas, 7. Watson, Proc. Am. Acad. 11. 127.

? *T. adscendens.* Hornem. Hort. Hafn. 716. Seringe, DC. Prodr. 2. 207.

T. platycephalum. Bischof, Del. Sem. h. Heidelb. 1839 (Litt.-Ber. zu Linnæa, 14. 132). Walp. Rep. 1. 644. Dietr. 4. 1005.

T. repens, Linn. Michx. Fl. 2. 59. Pursh, 477. Bigel. Fl. Bost. 271. Elliott, 2. 201. Torrey, Compend. 265; Fl. N. Y. 1. 169. Hook. Fl. Bor.-Am. 1. 132. Beck, Bot. 80. Darling. Fl. Cestr. 407. Torr. & Gray, Fl. 1. 316. Eat. & Wr. 456. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 189. Newberry, Pac. R. Rep. 6. 70. Gray, same, 12. 42; Manual, 127. Chapman, 91. Hook. f. Arct. Pl. 289. Rothr. Fl. Alaska, 445. Boland. Cat. 9. Brew. & Wats. Bot. Calif. 1. 129.

T. stoloniferum. Muhl. Cat. 70. Eaton, Manual, 5 ed. 474. Beck, Bot. 80. Torr. & Gray, Fl. 1. 315. Eat. & Wr. 457. Walp. Rep. 1. 643. Dietr. 4. 1004. Engelm. Pl. Upp. Miss. 189. Gray, Pac. R. Rep. 12. 42; Manual, 127. Watson, Proc. Am. Acad. 11. 127.

T. tridentatum. Lindl. Bot. Reg., under t. 1070. Don, Mill. 2. 185. Torr. & Gray, Fl. 1. 692. Benth. Pl. Hartw. 10 & 304. Torrey, Sitgr. Rep. 158; Pac. R. Rep. 4. 78; Mex. Bound. 54; Bot. Wilkes, 271. Newberry, Pac. R. Rep. 6. 70. Boland. Cat. 9. Watson, Proc. Am. Acad. 11. 130. Brew. & Wats. Bot. Calif. 1. 130.

T. involucratum. Smith, Rees Cyc. n. 28. Hook. Fl. Bor.-Am. 1. 133. Torr. & Gray, Fl. 1. 318. Hook. & Arn. Bot. Beechey, 331.

T. aciculare. Nutt.; Torr. & Gray, Fl. 1. 319. Eat. & Wr. 459. Dietr. 4. 1005.

T. polyphyllum. Nutt.; Torr. & Gray, Fl. 1. 319. Eat. & Wr. 459. Walp. Rep. 1. 645.

T. Nuttallii. Dietr. 4. 1005.

T. fimbriatum, var. *angustifolium.* Gray, Proc. Am. Acad. 8. 379.

Var. **obtusiflorum.** Watson, Proc. Am. Acad. 11. 130. Brew. & Wats. Bot. Calif. 1. 130.

T. obtusiflorum. Hook. Icon. **t. 281.** Hook. & Arn. Bot. Beechey, 331. Torr. & Gray, Fl. 1. 691. Walp. Rep. 1. 645. Dietr. 4. 1005. Benth. Pl. Hartw. 304. Boland. Cat. 9.

T. fimbriatum, var. Watson, King's Rep. 5. 61.

Var. **melananthum.** Watson, Proc. Am. Acad. 11. 130. Brew. & Wats. l. c.

T. melananthum. Hook. & Arn. Bot. Beechey, 331. Walp. Rep. 1. 645.

T. variegatum, var. *β.* Torr. & Gray, Fl. 1. 317 & 691.

T. aciculare; tridentatum.
adscendens; reflexum.
albopurpureum; Macræi.
altissimum; Beckwithii.
biflorum; Stylosanthes elatior.
campestre; procumbens.
T. ciliolatum; ciliatum.
comosum; Carolinianum.
denudatum; gracilentum.
dichotomum; Macræi.
diversifolium; amplectens.
erectum; Rhynchosia tomentosa.

T. eriocephalum; longipes.
fimbriatum; involucratum, tridentatum.
Haydeni; Kingii.
heterodon; involucratum.
involucratum; tridentatum.
macrocalyx; Bejariense.
macrocephalum; megacephalum.
melananthum; tridentatum.
microcephalum; pauciflorum.
minimum; procumbens.
Nuttallii; tridentatum.
obcordatum; Carolinianum.
obtusiflorum; tridentatum.
officinale; Melilotus officinalis.
oliganthum; pauciflorum.
oxypetalum; Carolinianum.
T. pauciflorum; monanthum.
Pennsylvanicum; medium.
physopetalum; fucatum.
platycephalum; reflexum.
polyphyllum; tridentatum.
psoralioides; Psoralea melilotoides.
repens; Carolinianum.
Rœmerianum; amphianthum.
simplicifolia; Rhynchosia tomentosa.
spinulosum; involucratum.
stenophyllum; depauperatum.
subcaulescens; gymnocarpon, longipes.
umbellatum; Carolinianum.
variegatum; pauciflorum, tridentatum.
Willdenovii & *Wormskioldii;* involucratum.

VICIA acutifolia. Elliott, 2. 225. Seringe, DC. Prodr. 2. 357. Torr. & Gray, Fl. 1. 271. Eat. & Wr. 475. Dietr. 4. 1107. Chapman, 98. Wood, Bot. & Fl. 86.
V. lutescens. Muhl. Cat. 68.
Cracca acutifolia. Alefeld, Bonplandia, 9. 118.

V. Americana. Muhl.; Willd. Spec. 3. 1096. Persoon, 2. 306. Poir. Dict. 8. 554. Pursh, 471. Richard. Frankl. Journ. 17. Seringe, DC. Prodr. 2. 355. Spreng. Syst. 3. 268. Torrey, Compend. 263; Fl. N. Y. 1. 154; Nicol. Rep. 147; Stansb. Rep. 385; Bot. Wilkes, 266. Hook. Fl. Bor.-Am. 1. 157; Lond. Journ. Bot. 6. 206. Don, Mill. 2. 316. Beck, Bot. 88. Torr. & Gray, Fl. 1. 269. Eat. & Wr. 474. Nees, Pl. Neuwied. 8. Dietr. 4. 1106. Gray, Pl. Fendl. 30; Pac. R. Rep. 12. 41; Proc. Acad. Philad. 1863, 60; Manual, 139. Seem. Bot. Herald, 51. Engelm. Pl. Upp. Miss. 188. Newberry, Pac. R. Rep. 6. 70. Cooper, same, 12. 51. Durand, Fl. Utah, 161. Lesqx. Fl. Ark. 357. Hook. f. Arct. Pl. 289. Pl. Bourgeau, 256. Rothr. Fl. Alaska, 435; Pl. Wheeler, 36. Watson, King's Rep. 5. 78; Pl. Wheeler, 8. Porter, Hayd. Rep. 1870, 475; 1871, 481; Fl. Col. 32. Coulter, Hayd. Rep. 1872, 764. Brew. & Wats. Bot. Calif. 1. 157.
Orobus diffusus. Nutt. in Fras. Cat. 1813.
V. sylvatica. Nutt. Genera, 2. 97.
V. tridentata. Schweinitz, Long's Exped. Appx. 116. Torr. & Gray, Fl. 1. 272. Eat. & Wr. 474. Walp. Rep. 1. 718.
Lathyrus diffusus. Don, Mill. 2. 336. Dietr. 4. 1116.
V. Oregana. Nutt.; Torr. & Gray, Fl. 1. 270. Eat. & Wr. 475. Walp. Rep. 1. 715. Dietr. 4. 1106. Durand, Fl. Utah, 161. Torrey, Pac. R. Rep. 4. 76 & 7. 9. Newberry, same, 6. 70. Cooper, same, 12. 57. Boland. Cat. 10. Gray, Proc. Am. Acad. 8. 380.
V. sparsifolia. Nutt. l. c. Eat. & Wr. 475. Walp. Rep. 1. 715. Dietr. 4. 1107. Gray, Proc. Am. Acad. 8. 380.
V. trifida. Dietr. 4. 1112.
Abauosa Americana. Alefeld, Bonplandia, 9. 104.

Var. **truncata.** Brewer.; Brew. & Wats. Bot. Calif. 1. 158.
V. truncata. Nutt.; Torr. & Gray, Fl. 1. 270. Eat. & Wr. 475. Walp. Rep. 1. 715. Dietr. 4. 1107. Gray, Pl. Fendl. 30; Proc. Am. Acad. 8. 380. Newberry, Pac. R. Rep. 6. 70. Kellogg, Proc. Calif. Acad. 1. 57. Porter, Fl. Col. 32.

Var. **linearis.** Watson, Proc. Am. Acad. 11. 134. Brew. & Wats. l. c.

Lathyrus linearis. Nutt.; Torr. & Gray, Fl. 1. 276. Eat. & Wr. 293. Walp. Rep. 1. 721. Torrey, Nicol. Rep. 147; Frem. Rep. 88; Emory's Rep. 408; Sitgr. Rep. 157: Mex. Bound. 49. Dietr. 4. 1114. Gray, Pl. Wright. 2. 32; Pac. R. Rep. 12. 41; Am. Journ. Sci. 2. 33. 410; Proc. Acad. Philad. 1863, 60. Engelm. Pl. Upp. Miss. 188. Porter, Hayd. Rep. 1870, 475; Fl. Col. 32. Watson, Pl. Wheeler, 8. Rothrock, same, 36.

Lathyrus dissitifolius. Nutt.; Torr. & Gray, Fl. 1. 277. Eat. & Wr. 293. Walp. Rep. 1. 721. Dietr. 4. 1115.

Orobus dissitifolius. Alefeld, Bonplandia, 9. 145.

V. Caroliniana. Walter, 182. Willd. Spec. 3. 1094. Persoon, 2. 307. Poir. Dict. 8. 553. Pursh, 472. Elliott, 2. 224. Seringe, DC. Prodr. 2. 355. Spreng. Syst. 3. 269. Torrey, Compend. 264. Hook. Fl. Bor.-Am. 1. 157. Don, Mill. 2. 315. Beck, Bot. 88. Torr. & Gray, Fl. 1. 271. Eat. & Wr. 474. Dietr. 4. 1107. Lesqx. Fl. Ark. 357. Chapman, 98. Gray, Manual, 139.

V. parviflora. Michx. Fl. 2. 69. Persoon, 2. 306. Poir. Dict. 8. 558.

V. Hexameri. Alefeld, Bot. Zeit. 17. 231.

Cracca Caroliniana. Alefeld, Bonplandia, 9. 124.

V. Cracca. Linn. Spec. 735. See syn. in Ledeb. Fl. Ross. 1. 674; Trautvetter, Trudi Peterb. 3. 49, under *Ervum.* — Michx. Fl. 2. 69. Pursh, 472. Nutt. Genera, 2. 97. Bigel. Fl. Bost. 2 ed. 269. Torrey, Compend. 264; Fl. N. Y. 1. 155. Hook. Fl. Bor.-Am. 1. 157. Beck, Bot. 88. Torr. & Gray, Fl. 1. 270. Eat. & Wr. 474. Lange, Pl. Grönl. 135. Hook. f. Arct. Pl. 289. Gray, Manual, 139.

? *V. Douglassii.* Torrey, Am. Journ. Sci. 1. 4. 66.

V. exigua. Nutt.; Torr. & Gray, Fl. 1. 272. Eat. & Wr. 475. Walp. Rep. 1. 716. Dietr. 4. 1107. Gray, Pl. Wright. 2. 32. Torrey, Pac. R. Rep. 4. 76; Mex. Bound. 49. Parry, Am. Naturalist, 9. 269. Watson, Proc. Am. Acad. 11. 114. Brew. & Wats. Bot. Calif. 1. 158.

Cracca exigua. Alefeld, Bonplandia, 9. 119.

V. gigantea. Hook. Fl. Bor.-Am. 1. 157. Don, Mill. 2. 318. Torr. & Gray, Fl. 1. 270. Eat. & Wr. 474. Torrey, Pac. R. Rep. 4. 76; Bot. Wilkes, 266. Newberry, Pac. R. Rep. 6. 70. Cooper, same, 12. 31 & 57. Gray, Proc. Am. Acad. 8. 380. Rothr. Fl. Alask. 445. Boland. Cat. 10. Brew. & Wats. Bot. Calif. 1. 157.

V. Sitchensis. Bongard, Veg. Sitch. 129 (Presl, Repert. Bot. 1. 312). Vogel, Linnæa, 10. 591. Ledeb. Fl. Ross. 1. 673. Dietr. 4. 1103.

V. Hookeriana. Walp. Rep. 1. 715.

V. HIRSUTA, Koch. Chapman, 98. Gray, Manual, 139.

V. Mitchelli. Raf. Préc. Découv. 37, & Desv. Journ. Bot. 1814, 269. Poir. Suppl. 5. 473. Elliott, 2. 224. Seringe, DC. Prodr. 2. 360. Don, Mill. 2. 319.

Ervum hirsutum, Linn. Torrey, Compend. 264; Fl. N. Y. 1. 156. Hook. Fl. Bor.-Am. 1. 158. Don, Mill. 2. 326. Beck, Bot. 89. Darling. Fl. Cestr. 426. Torr. & Gray, Fl. 1. 273. Eat. & Wr. 238.

V. Leavenworthii. Torr. & Gray, Fl. 1. 271; Pac. R. Rep. 2. 162. Eat. & Wr. 475. Walp. Rep. 1. 716. Dietr. 4. 1107. Gray, Pl. Lindh. 170.

Cracca erotanthos. Alefeld, Bonplandia, 9. 118.

V. Ludoviciana. Nutt.; Torr. & Gray, Fl. 1. 271. Eat. & Wr. 475. Walp. Rep. 1. 716. Engelm. & Gray, Pl. Lindh. 6. Dietr. 4. 1107. Gray, Hall's Pl. Texas, 7. Young, Fl. Texas, 229.

V. Cracca, var. *pauciflora.* Hook. Comp. Bot. Mag. 1. 23.

Ervum pilosum. Engelm. in Œstr. Bot. Zeit. 1859, 363.

Ervum tridentatum. Alefeld, Œstr. Bot. Zeit. 1859, 363.
Cracca Ludoviciana & tridentata. Alefeld, Bonplandia, 9. 119.

V. micrantha. Nutt ; Torr. & Gray, Fl. 1. 271. Eat. & Wr. 475. Walp. Rep. 1. 716. Gray, Pl. Fendl. 30; Hall's Pl. Texas, 7. Torrey, Marcy's Rep. 283. Chapman, 98. Wood, Bot. & Fl. 86. Porter, Fl. Col. 32.
V. minutiflora. Dietr. 4. 1107.
Ervum emarginatum. Engelm.; Alefeld in Œstr. Bot. Zeit. 1859, 363.
Abacosa micrantha. Alefeld, Bonplandia, 9. 104.

V. pulchella. HBK. Nov. Gen. 6. 499, **t. 583.** Seringe, DC. Prodr. 2. 357. Gray, Pl. Wright. 2. 32. Torrey, Sitgr. Rep. 157; Mex. Bound. 49. Brew. & Wats. Bot. Calif. 1. 158.
V. exigua. Torr. & Gray, Pac. R. Rep. 2. 162.
Cracca pulchella. Alefeld, Bonplandia, 9. 119.

V. SATIVA, Linn. Walter, 183. Michx. Fl. 2. 69. Pursh, 471. Bigel. Fl. Bost. 2 ed. 270. Elliott, 2. 223. Torrey, Compend. 263; Fl. N. Y. 1. 156. Hook. Fl. Bor.-Am. 1. 157. Beck, Bot. 89. Darling. Fl. Cestr. 425. Torr. & Gray, Fl. 1. 272. Eat. & Wr. 474. Chapman, 98. Pl. Bourgeau, 256. Gray, Manual, 138. Brew. & Wats. Bot. Calif. 1. 158.
V. Canadensis. Zuccagni, Obs. Bot. n. 83. Seringe, DC. Prodr. 2. 361. Don, Mill. 2. 322. Dietr. 4. 1111.

Var. ANGUSTIFOLIA, Seringe. Gray, Manual, 138.

V. TETRASPERMA, Loisel. Torr. & Gray, Fl. 1. 272. Eat. & Wr. 475. Torrey, Fl. N. Y. 1. 155. Gray, Manual, 139.
Ervum tetraspermum, Linn. Torrey, Compend. 264. Hook. Fl. Bor.-Am. 1. 158. Beck, Bot. 89.
V. pusilla. Muhl.; Willd. Spec. 3. 1106. Persoon, 2. 308. Poir. Dict. 8. 564. Pursh, 471. Bigel. Fl. Bost. 2 ed. 270. Seringe, l. c. 363. Don, Mill. 2. 321.

V. Canadensis; sativa.
Cracca; Ludoviciana.
Douglassii; Cracca.
exigua; pulchella.
Hexameri; Caroliniana.
Hookeriana; gigantea.
lutescens; acutifolia.
minutiflora; micrantha.
Mitchelli; hirsuta.
V. Oregana; Americana.
parviflora; Caroliniana.
pusilla; tetrasperma.
Sitchensis; gigantea.
sparsifolia; Americana.
stipulacea; Lathyrus polymorphus.
sylvatica & truncata; Americana.
trifida; tridentata.

VIGNA luteola. Benth. in Mart. Fl. Bras. 15[1]. 194, **t. 50, fig. 2,** with syn. Griseb. Fl. Brit. W. Ind. 195, with syn.
Dolichos luteolus. Jacq. Hort. Vind. 1. 39, **t. 90.** Lam. Dict. 2. 299. Pursh, 470. Nutt. Genera, 2. 112. Elliott, 2. 231. Eat. & Wr. 227.
V. glabra. Savi, Mem. 3. 8 ? DC. Prodr. 2. 401. Hook. Comp. Bot. Mag. 1. 24. Don, Mill. 2. 360. Torr. & Gray, Fl. 1. 281 & 686. Engelm. & Gray, Pl. Lindh. 6. Dietr. 4. 1197. Smith, Proc. Acad. Philad. 1867, 19. Chapman, 106.
V. villosa. Savi, l. c. DC. Prodr. 2. 401. Torrey, Mex. Bound. 50.
? *V. hirsuta.* Feay; Wood, Bot. & Fl. 96.

Var. **angustifolia.**
V. glabra, var. *angustifolia.* Engelm. & Gray, Pl. Lindh. 6.

WISTARIA frutescens. Poir. in Lam. Ill. 3. 674. DC. Prodr. 2. 390. Audubon, Birds, **t. 95.** Sweet, Brit. Fl. Gard. 2 ser. **t. 104.** Don, Mill. 2. 348. Maund, Bot. Gard. 9, **t. 386.** Spach, Hist. Veg. 1. 321. Hook. Comp. Bot. Mag. 1. 24. Torr. & Gray, Fl. 1. 283. Walp. Rep. 1. 770. Loud. Arbor. 2. 647, **f. 359.** Dietr. 4. 1202. Curtis, Bot. N. Car. 118. Chapman, 95. Gray, Manual, 131.

Anonymos frutescens. Walter, 186.

Glycine frutescens. Linn. Spec. 753. Hill, Veg. Syst. 21, **t. 7, fig. 2.** Marshall, Arbust. 55. Lam. Dict. 2. 738. Ait. Hort. Kew. 3. 35. Willd. Spec. 3. 1067; Enum. 757. Michx. Fl. 2. 63. Persoon, 2. 301. Sims, Bot. Mag. **t. 2103.** André, Revue Hort. 1862, 12 & 49, with **t.**

Apios frutescens. Pursh, 474.

Diplonyx elegans. Raf. Fl. Lud. 101. Poir. l. c. 3. 675. Spreng. Syst. 3. 279.

W. speciosa. Nutt. Genera, 2. 116. Spreng. Syst. 3. 255.

Thyrsanthus frutescens. Elliott, Journ. Acad. Philad. 1. 371 (Litt.-Ber. zu Linnæa, 1828, 164); Sketch, 2. 237.

Thyrsanthus Floridana. Croom, Am. Journ. Sci. 1. 25. 75 & 1. 28. 167.

Phaseolus frutescens. Eat. & Wr. 354.

Var. **macrostachya.** Torr. & Gray, Fl. 1. 283.

ZORNIA diphylla. Persoon, 2. 318. See syn. in Benth. Mart. Fl. Bras. 15[1]. 80 (**t. 21, 22**), & Griseb. Fl. Brit. W. Ind. 185.

Var. **reticulata.** Benth. l. c.

Z. reticulata. Smith, Rees Cyc. n. 2. DC. Prodr. 2. 316. Gray, Pl. Wright. 2. 46. Seem. Bot. Herald, 250.

Z. tetraphylla. Michx. Fl. 2. 76, **t. 41.** Persoon, 2. 318. Pursh, 484. Elliott, 2. 219. DC. Prodr. 2. 317. Spreng. Syst. 3. 311. Don, Mill. 2. 280. Hook. Comp. Bot. Mag. 1. 22. Torr. & Gray, Fl. 1. 354. Eat. & Wr. 485. Dietr. 4. 1129. Benth. in Mart Fl. Bras. 15[1]. 83. Chapman, 100. Wood, Bot. & Fl. 87. Gray, Hall's Pl. Texas, 7.

Anonymos bracteata. Walter, 181.

Z. bracteata. Gmelin, Syst. 1096.

Hedysarum tetraphyllum. Poir. Dict. 6. 405.

ROSACEÆ.

ACÆNA trifida. Ruiz & Pavon, Fl. Peruv. 1. 67, **t. 104, f. C.** [Vahl, Enum. 1. 296. Persoon, 1. 142. Roem. & Schult. Syst. 1. 269. DC. Prodr. 2. 593. Gay, Fl. Chil. 2. 292.] Torrey, Pac. R. Rep. 4. 84; Bot. Wilkes, 294. Brew. & Wats. Bot. Calif. 1. 186.

A. pinnatifida. Lindl. Bot. Reg. 15, **t. 1271,** not Ruiz & Pav. Hook. & Arn. Bot. Beechey, 339. Torr. & Gray, Fl. 1. 432. Torrey, Mex. Bound. 63, **t. 19.** Boland. Cat. 10.

ADENOSTOMA fasciculatum. Hook. & Arn. Bot. Beechey, 139 & 338, **t. 30.** Torr. & Gray, Fl. 1. 430. Walp. Rep. 2. 43 & 5. 655. Torrey, Frem. Rep. 11; Emory's Rep. 140; Pac. R. Rep. 4. 84 & 7. 11; Mex. Bound. 63; Bot. Wilkes, 293. Benth. Bot. Sulph. 14; Pl. Hartw. 309. Presl, Epimel. Bot. 200. Lindl. in Journ. Hort. Soc. Lond. 6. 55 & **fig.** Boland. Proc. Calif. Acad. 3. 79; Cat. 10. Baillon, Hist. Pl. 1. 383, **f. 438.** Brew. & Wats. Bot. Calif. 1. 184.

Var. **obtusifolium.** Watson, Bot. Calif. 1. 184.

A. sparsifolium. Torrey, Emory's Rep. 140; Mex. Bound. 63, **t. 20.** Baillon, Hist. Pl. 1. 384. Brew. & Wats. Bot. Calif. 1. 185.

AGRIMONIA Eupatoria. Linn. Spec. 448. See syn. in Ledeb. Fl. Ross. 2. 31; Pritzel, Icon. Bot. 27. — Walter, 131. Pursh, 335. Bigel. Fl. Bost. 189. Elliott, 1. 535. Torrey, Fl. U. S. 473; Fl. N. Y. 1. 207. Spreng. Syst. 2. 461. Raf. Med. Bot. 1. 34, **f. 3.** Hook. Fl. Bor.-Am. 1. 196. Don, Mill. 2. 563, **f. 73.** Beck, Bot. 108. Torr. & Gray, Fl. 1. 431. C. A. Meyer, Rev. Agrim. 9 (Ann. Sci. Nat. 2. 18. 374). Eat. & Wr. 116. Dietr. 3. 26. Gray, Pl. Fendl. 41; Manual, 151. Engelm. Pl. Upp. Miss. 190. Chapman, 122. Porter, Fl. Col. 34. Brew. & Wats. Bot. Calif. 185.

A. pilosa. Pl. Bourgeau, 256.

A. platycarpa, rostellata & gryposepala. Wallroth, Beitr. Bot. 1. 38, 42 & 49, **t. 1, f. 5, 8.** Walp. Rep. 2. 38 & 39.

Var. **parviflora.** Hook. Fl. Bor.-Am. 1. 196, excl. syn. Torr. & Gray, Fl. 1. 431. Torrey, Fl. N. Y. 1. 206.

A. minor. Muhl. Ind. Fl. Lanc. 170.

A. striata. Michx. Fl. 1. 287. Poir. Suppl. 5. 539. Seringe, DC. Prodr. 2. 588. Meyer, ll. cc. 15 & 379. Don, Mill. 2. 563. Eat. & Wr. 117. Walp. Rep. 2. 41.

A. parviflora. Spreng. Syst. 2. 461, not Ait. Seringe, l. c. Beck, Bot. 108.

A. microcarpa & pubescens. Wallroth, l. c. 39 & 45, **t. 1, f. 3, 7.** Walp. l. c.

A. incisa. Torr. & Gray, Fl. 1. 431. Meyer, ll. cc. 16 & 379. Walp. Rep. 2. 41. Dietr. 3. 26. Bertoloni, Bot. Misc. 11. 20, **t. 4.** Chapman, 122. Wood, Cl.-Book, 337.

A. parviflora, var. *incisa.* Wood, Bot. & Fl. 108.

A. parviflora. Ait. Hort. Kew. 2. 130. Willd. Spec. 2. 876. Persoon, 2. 9. Poir. Suppl. 1. 263. Pursh, 336. Don, Mill. 2. 563. Hook. Comp. Bot. Mag. 1. 24. Torr. & Gray, Fl. 1. 431. Meyer, ll. cc. 16 & 379. Eat. & Wr. 117. Walp. Rep. 2. 41. Dietr. 3. 27. Engelm. Pl. Upp. Miss. 190. Lesqx. Fl. Ark. 359. Chapman, 122. Hook. f. in Mart. Fl. Bras. 14². 67. Gray, Manual, 151. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 322.

A. Eupatoria. Michx. Fl. 1. 287, chiefly.

A. suaveolens. Pursh, 336. Poir. Suppl. 5. 539. Elliott, 1. 536. Spreng. Syst. 2. 461. Seringe, DC. Prodr. 2. 588. Don, Mill. 2. 563. Hook. Comp. Bot. Mag. 1. 24. Beck, Am. Journ. Sci. 1. 14. 112. Eat. & Wr. 117. Meyer, ll. cc. 16 & 379. Wallroth, Beitr. Bot. 1. 53, **t. 1, f. 10.** Walp. Rep. 2. 40 & 41.

A. serrifolia. Wallroth, l. c. 1. 40. Walp. Rep. 2. 38.

ALCHEMILLA alpina. Linn. Spec. 123. [Oeder, Fl. Dan. t. 49. Engl. Bot. 4. **t. 244.**] — Pursh, 112. Nutt. Genera, 1. 106. Roem. & Schult. Syst. 3. 470. Torrey, Fl. U. S. 191. Spreng. Syst. 1. 454. DC. Prodr. 2. 588. Hook. Fl. Bor.-Am. 1. 197. Beck, Bot. 114. Torr. & Gray, Fl. 1. 432. Eat. & Wr. 119. Bigel. Fl. Bost. 3 ed. 63. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 190 (Kane's Exped. 2. 453). Lange, Pl. Groenl. 135. Hook. f. Journ. Linn. Soc. 5. 83; Arct. Pl. 289. Gray, Manual, 151.

A. arvensis. Scop. Fl. Carn. 2 ed. 1. 115. [DC. Prodr. 2. 590. Engl. Bot. 15, **t. 1011.**] — Torr. & Gray, Fl. 1. 432. Curtis, Am. Journ. Sci. 2. 7. 406. Torrey, Pac. R. Rep. 4. 84; Bot. Wilkes, 203. Chapman, 123. Gray, Manual, 151. Boland. Cat. 10. Brew. & Wats. Bot. Calif. 185.

Aphanes arvensis. Linn. Spec. 123. [Oeder, Fl. Dan. **t. 973.** Lam. Ill. 1. 348, **t. 87.** Schkuhr, Handb. 1. 87, **t. 26.**] Nutt. Genera, 1. 106. Eat. & Wr. 129.

Alchemilla Aphanes. Pursh, 112. Spreng. Syst. 1. 454.

A. cuneifolia. Nutt.; Torr. & Gray, Fl. 1. 432. Walp. Rep. 2. 42.

A. occidentalis. Nutt. l. c. Walp. Rep. 2. 42. Gray, Proc. Am. Acad. 8. 381. Watson, same, 11. 114.

A. vulgaris. Linn. Spec. 132. [Oeder, Fl. Dan. **t. 693.** Engl. Bot. **t. 597.**] See syn. in Ledeb. Fl. Ross. 2. 29; Pritzel, Icon. Bot. 32. — Hook. Fl. Bor.-Am. 1. 197. Torr. & Gray, Fl. 1. 432. Seller, Ann. & Mag. Nat. Hist. 1. 16. 171. Durand, Pl. Kane, 1856, 190 (Kane's Exp. 2. 453). Lange, Pl. Groenl. 135. Hook. f. in Journ. Linn. Soc. 1. 116 & 5. 83; Arct. Pl. 289. Ascherson, Fl. Lab. in Flora, 43. 370.

AMELANCHIER alnifolia. Nutt. in Journ. Acad. Philad. 7. 22. Roemer, Syn. Monog. 3. 147. Cooper, Am. Naturalist, 3. 407. Wenzig, Linnæa, 38. 113. Decaisne, Mem. Fam. Pom. in Nouv. Arch. Mus. 10. 135. Watson, Pl. Wheeler, 8. Brew. & Wats. Bot. Calif. 1. 190.

Pyrus sanguinea. Pursh, 340, in part.

Aronia alnifolia. Nutt. Genera, 1. 306. Eat. & Wr. 135.

Pyrus alnifolia. Spreng. Syst. 2. 509.

A. ovalis, var. *semiintegrifolia.* Hook. Fl. Bor.-Am. 1. 202. Don, Mill. 2. 604.

A. florida. Lindl. Bot. Reg. 19, **t. 1589** (Litt.-Ber. zu Linnæa, 1835, 14). Spach, Hist. Veg. 2. 86. Walp. Rep. 2. 55. Loud. Arbor. 2. 876, **f. 633, 634.** Roemer, Syn. Monog. 3. 144. Decaisne, Mem. Fam. Pom. 136.

A. Canadensis, var. *alnifolia.* Torr. & Gray, Fl. 1. 473. Walp. Rep. 2. 55. Dietr. 3. 158. Torrey, Frem. Rep. 89; Pac. R. Rep. 4. 85; Mex. Bound. 64; Bot. Wilkes, 291. Hook. in Lond. Journ. Bot. 6. 220. Gray, Pl. Fendl. 42; Ives's Rep. 11; Proc. Am. Acad. 8. 382; Manual, 162. Newberry, Pac. R. Rep. 6. 73. Cooper, same, 12. 30. Kellogg, Proc. Calif. Acad. 1. 59. Bolander, same, 3. 80; Cat. 11. Watson, King's Rep. 5. 92. Porter, Hayd. Rep. 1871, 481; Fl. Col. 38. Coulter, Hayd. Rep. 1872, 765. Rothr. Pl. Wheeler, 37.

A. Canadensis, var. *pumila.* Torr. & Gray, Fl. 1. 474. Walp. l. c. Dietr. l. c.

A. pumila. Roem. Syn. Monog. 3. 145.

A. Canadensis, var. *oblongifolia.* Benth. Pl. Hartw. 309.

A. Canadensis. Anderson, Cat. Pl. Nev. 120.

A. Canadensis. Torr. & Gray, Fl. 1. 473. Walp. Rep. 2. 55. Dietr. 3. 158. Torrey, Fl. N. Y. 1. 225. Emerson, Trees of Mass. 1. 443, & 2 ed. 2. 503, **fig.** Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 191. Richard. Arct. Exped. 428. Seem. Bot. Herald, 52. Hook. f. Arct. Pl. 290 & 327. Curtis, Bot. N. Car. 68. Chapman, 129. Pl. Bourgeau, 256. Gray, Manual, 162. Maximowicz, Bull. Acad. Petersb. 19. 175 (Mélang. Biolog. 9. 174).

Mespilus Canadensis. Linn. Spec. 1. 478, excl. syn. Gronov. Walter, 148. Ait. Hort. Kew. 2. 173.

Cratægus tomentosa. Linn. Spec. 476, syn. Gronov.

Pyrus Botryapium. Linn. f. Suppl. 255. Wangenh. Amer. **t. 28.** Ehrhart, Beitr. 1. 183 & 2. 68. Willd. Spec. 2. 1013; Enum. 525. Ait. f. Hort. Kew. 3. 207. Pursh, 339. Bigel. Fl. Bost. 196. Guimp. Otto & Hayne, **t. 79.** Spreng. Syst. 2. 509. Audubon, Birds, **t. 60.**

Cratægus racemosa. Lam. Dict. 1. 84. Nouv. Duham. 4. 133. Poir. Suppl. 1. 292.

Mespilus nivea. Marshal, Arbust. 90.

Mespilus Canadensis, var. *β. cordata.* Michx. Fl. 1. 291.

Aronia Botryapium. Persoon, 2. 39. Nutt. Genera, 1. 557. Elliott, 1. 557. Torrey, Fl. U. S. 479. Eat. & Wr. 135.

Mespilus arborea. Michx. f. Arb. Am. 3. 68, **t. 11.**

Amelanchier Botryapium. Lindl. Trans. Linn. Soc. 13. 100. DC. Prodr. 2. 632. Hook. Fl. Bor.-Am. 1. 202. Don, Mill. 2. 604. Beck, Bot. 112. Spach, Hist. Veg. 2. 84. Loud. Arbor. 2. 874, **t. 162, 163**, & **f. 627–629**. Roem. Syn. Monog. 3. 145. Wenzig, Linnæa, 38. 110. Decaisne, Mem. Fam. Pom. 135.

Aronia cordata. Raf. Med. Bot. 2. 196.

Amelanchier ovalis. Hook. Fl. Bor.-Am. 1. 202, in part.

Pyrus Bartramiana & *Wangenheimiana.* Tausch, Flora, 21. 715. Roem. Syn. Monog. 3. 145 & 146 (as *Amelanchier*).

Var. **rotundifolia.** Torr. & Gray, Fl. 1. 473. Walp. Rep. 2. 55. Dietr. 3. 158. Torrey, Fl. N. Y. 1. 225. Cooper, Pac. R. Rep. 12. 60. Chapman, 129. Gray, Manual, 162.

? *Mespilus Amelanchier.* Walter, 148.

Pyrus ovalis. Willd. Arbor. 259; Spec. 2. 1014; Enum. 525. Spreng. Syst. 2. 509. Wenzig, Linnæa, 38. 111.

Mespilus Canadensis, var. *rotundifolia.* Michx. Fl. 1. 291.

Aronia ovalis. Persoon, 2. 40. Elliott, 1. 558.

Amelanchier ovalis. Lindl. Trans. Linn. Soc. 13. 100.

? *Aronia latifolia.* Riddell, Suppl. Cat. Pl. Ohio, 24.

? *Xeromalon obovatum.* Raf. New Flora, 3. 12.

Amelanchier rotundifolia. Roem. Syn. Monog. 3. 146.

Var. (?) **oblongifolia.** Torr. & Gray, Fl. 1. 473. Walp. Rep. 2. 55. Dietr. 3. 158. Torrey, Fl. N. Y. 1. 225; Nicol. Rep. 149. Emerson, Trees of Mass. 1. 444, & 2 ed. 2. 504, **fig.** Gray, Manual, 162.

Crataegus spicata. Lam. Dict. 1. 84. Nouv. Duham. 4. 132. Poir. Suppl. 1. 292.

Mespilus Canadensis, var. *obovalis.* Michx. Fl. 1. 291.

Pyrus ovalis. Pursh, 340. Schrank, Pfl. Lab. 26. Bigel. Fl. Bost. 195.

Aronia ovalis. Torrey, Fl. U. S. 479. Eat. & Wr. 135.

Amelanchier ovalis. DC. Prodr. 2. 632. Meyer, Pl. Lab. 81. Hook. Fl. Bor.-Am. 1. 202, in part. Don, Mill. 2. 604. Beck, Bot. 112. Spach, Hist. Veg. 2. 85. Loud. Arb. 2. 876, **f. 632.**

Amelanchier intermedia. Spach, Hist. Veg. 2. 85. Wenzig, Linnæa, 38. 112.

? *Pyrus Neumanniana.* Tausch, l. c. Roem. l. c. 3. 147 (as *Amelanchier*).

Amelanchier oblongifolia. Roem. l. c.

A. spicata. Decaisne, Mem. Fam. Pom. 135, **t. 9, v.**

Var. (?) **oligocarpa.** Torr. & Gray, Fl. 1. 474. Walp. Rep. 2. 55. Dietr. 3. 158. Torrey, Fl. N. Y. 1. 226. Gray, Manual, 162.

Mespilus Canadensis, var. *oligocarpa.* Michx. Fl. 1. 291.

Pyrus sanguinea. Pursh, 340, in part. Bigel. Fl. Bost. 2. ed. 196. Spreng. Syst. 2. 509.

Aronia sanguinea. Nutt. Genera, 1. 306. Eat. & Wr. 135.

Amelanchier sanguinea. DC. Prodr. 2. 633. Lindl. Bot. Reg. 14, **t. 1171.** Hook. Fl. Bor.-Am. 1. 203. Don, Mill. 2. 604. Beck, Bot. 113. Spach, Hist. Veg. 2. 86, **t. 9, f. R.** Nees, Pl. Neuwied, 9 ? Loud. Arb. 2. 875, **f. 630, 631.** Roem. Syn. Monog. 3. 145. Wenzig, Linnæa, 38. 114. Decaisne, Mem. Fam. Pom. 136.

A. oligocarpa. Roem. Syn. Monog. 3. 145.

CANOTIA holacantha. Torrey, Pac. R. Rep. 4. 68. Gray, Ives's Rep. 15. Brew. & Wats. Bot Calif. 1. 190.

Kœberlinia (?) —— ? Engelm. in Emory's Rep. 158, **f. 14.**

CERASUS. See under *Prunus.*

C. borealis; P. Pennsylvanica.
Canadensis; P. Americana.
cerasifera; P. maritima.
Capuli; P. Capollin.
depressa; P. pumila.
Duerinckii; P. Virginiana.
erecta & *glandulosa;* P. emarginata.
glauca; P. pumila.
hiemalis; P. Americana.
hirsuta; P. Virginiana.
C. littoralis; P. maritima.
micrantha; P. Virginiana.
mollis; P. emarginata.
nigra; P. Americana.
obovata; P. Virginiana.
persicifolia; P. Pennsylvanica.
pubescens & *pygmæa;* P. maritima.
serotina; P. demissa, Virginiana.
Susquehannæ; P. pumila.
Virginiana; P. serotina.

CERCOCARPUS breviflorus. Gray, Pl. Wright. 2. 54. Walp. Ann. 4. 665.

C. fothergilloides. HBK. Nov. Gen. 6. 232, **t. 559.** DC. Prodr. 2. 589. Benth. Pl. Hartw. 16. Gray, Pl. Wright. 1. 68. Seem. Bot. Herald, 281. Baillon, Hist. Plant. 1. 381, **f. 436, 437.** (Mexican.)

C. intricatus. Watson, Proc. Am. Acad. 10. 346. Parry, Am. Naturalist, 9. 270; Proc. Davenport Acad. 1. 147, referring it to *C. ledifolius.*
C. breviflorus. Watson, King's Rep. 5. 83.

C. ledifolius. Nutt.; Torr. & Gray, Fl. 1. 427. Hook. Icon. **t. 324.** Walp. Rep. 2. 46. Dietr. 3. 119. Nutt. Sylva, 2. 28, **t. 51.** Watson, King's Rep. 5. 83 & 420; Pl. Wheeler, 8. Porter, Hayd. Rep. 1871, 481. Coulter, same, 1872, 765. Parry, Am. Naturalist, 9. 201 & 270; Proc. Dav. Acad. 1. 146 & 147. Engelm. in Simpson's Rep. 435. Brew. & Wats. Bot. Calif. 1. 174.

C. parvifolius. Nutt.; Hook. & Arn. Bot. Beechey, 337. Torr. & Gray, Fl. 1. 427; Pac. R. Rep. 2. 164. Hook. Icon. **t. 323.** Walp. Rep. 2. 45. Torrey, Frem. Rep. 89; Emory's Rep. 139; Sitgr. Rep. 158; Pac. R. Rep. 4. 83; Mex. Bound. 63; Bot. Wilkes, 287. Dietr. 3. 119. Gray, Pl. Fendl. 41; Pl. Wright. 1. 68 & 2. 54; Proc. Bost. Soc. Nat. Hist. 7. 146; Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 61. Engelm. Pl. Upp. Miss. 190. Boland. Proc. Calif. Acad. 3. 79; Cat. 10. Porter, Hayd. Rep. 1870, 475; 1871, 481; Fl. Col. 34. Watson, King's Rep. 5. 82. Rothr. Pl. Wheeler, 37. Brew. & Wats. Bot. Calif. 1. 174.
C. fothergilloides. Torrey, Ann. Lyc. N. Y. 2. 198.

Var. **glaber.** Watson, Bot. Calif. 1. 175.
C. betulæfolius. Nutt.; Hook. Icon. **t. 322.** Walp. Rep. 2. 46.
C. betuloides. Nutt.; Torr. & Gray, Fl. 1. 427. Hook. in Lond. Journ. Bot. 6. 218.

CHAMÆBATIA foliolosa. Benth. Pl. Hartw. 308. Torrey, Pl. Frem. 11, **t. 6**; Proc. Am. Assoc. 4. 192; Pac. R. Rep. 4. 84. Walp. Ann. 2. 520. Durand, Pl. Pratten. 87. Hook. Bot. Mag. **t. 5171.** L'Hort. Franc. 1861, **t. 2.** Baillon, Hist. Plant. 1. 379. Brew. & Wats. Bot. Calif. 1. 173.

CHAMÆRHODOS erecta. Bunge; Ledeb. Fl. Alt. 1. 431. See syn. in Ledeb. Fl. Ross. 2. 33. — Hook. Fl. Bor.-Am. 1. 196. Don, Mill. 2. 562. Torr. & Gray, Fl. 1. 433. Torrey, Nicol. Rep. 149. Gray, Pac. R. Rep. 12. 43; Proc. Acad. Philad. 1863, 61. Pl. Bourgeau, 256. Porter, Hayd. Rep. 1871, 481; Fl. Col. 35.
Sibbaldia erecta, Linn. Pursh, 211.

Var. **Nuttallii.** Torr. & Gray, Fl. 1. 433. Engelm. Pl. Upp. Miss. 190.
Sibbaldia erecta, var. *parviflora.* Nutt. Genera, 1. 207. Eat. & Wr. 424.

CHRYSOBALANUS Icaco. Linn. Spec. 513. [Jacq. Hist. Stirp. Am. 154, **t. 94**; Schnizl. Icon. **t. 274.**] See syn. in Hook. f. Mart. Fl. Bras. 14². 7; Pritzel,

Index Icon. Bot. 263. — Torr. & Gray, Fl. 1. 406. Cooper, Smithson. Rep. 1860, 439. Chapman, 119.

C. oblongifolius. Michx. Fl. 1. 283. Persoon, 2. 36. Poir. Suppl. 3. 135. Pursh, 329. Nutt. Genera, 1. 301. Elliott, 1. 529. Spreng. Syst. 2. 478. DC. Prodr. 2. 526. Raf. New Fl. 3. 26. Torr. & Gray, Fl. 1. 406. Dietr. 3. 46. Chapman, 119. Wood, Cl.-Book, 326; Bot. & Fl. 101.

C. retusus, incanus & *prunifolius?* Raf. New Fl. 3. 26.

Persea longipeda. Bertol. Bot. Misc. 13. 14, **t. 2** (Bot. Zeit. 14. 117); fide Gray, Am. Journ. Sci. 2. 20. 279.

COLEOGYNE ramosissima. Torrey, Pl. Frem. 8, **t. 4** (Flora, 36. 705). Walp. Ann. 4. 641. Gray, Ives's Rep. 11. Baillon, Hist. Pl. 1. 382. Parry, Am. Naturalist, 9. 270. Brandegee, Fl. S. W. Col. 236. Brew. & Wats. Bot. Calif. 1. 174.

COWANIA ericæfolia. Torrey, Pl. Frem. 12; Mex. Bound. 63. Gray, Pl. Wright. 2. 106. Walp. Ann. 4. 666. Brew. & Wats. Bot. Calif. 1. 175.

C. Mexicana. D. Don, Trans. Linn. Soc. 14. 574, **t. 22, f. 1–6.** Don, Mill. 2. 528. Benth. Pl. Hartw. 16. Seem. Bot. Herald, 283. Gray, Pl. Wright. 2. 55; Ives's Rep. 11. Torrey, Pac. R. Rep. 4. 84; Mex. Bound. 63. Watson, King's Rep. 5. 83; Pl. Wheeler, 8. Parry, Am. Naturalist, 9. 270. Brandegee, Fl. S. W. Col. 236. Brew. & Wats. Bot. Calif. 1. 175.

Geum (?) *dryadoides.* Moç. & Sesse, Icon. Pl. Mex. ined. **t. 297.** DC. Prodr. 2. 554. Fisch. & Mey. Ind. Sem. Petrop. 11, Suppl. 54. Gray, Pl. Wright. 1. 68.

C. plicata. Torrey, Frem. Rep. 314.

C. Stansburiana. Torrey, Stansb. Rep. 386, **t. 3** (Flora, 36. 702); Sitgr. Rep. 159; Pac. R. Rep. 4. 7 & 84. Walp. Ann. 4. 666. Durand, Fl. Utah, 163.

C. plicata. D. Don in Sweet, Brit. Fl. Gard. 2 ser. **t. 400.** Loud. Arb. 4. 2557, **f. 2445.** Gray, Pl. Wright. 1. 68. Torrey, Stansb. Rep. 386. Brew. & Wats. Bot. Calif. 1. 175.

C. purpurea. Zucc. Münch. Abhandl. 4, **t. 2.**

C. —— ? Engelm. in Wisliz. Rep. 20. Walp. Ann. 3. 857.

Greggia rupestris. Engelm. l. c. 30. Walp. Ann. 3. 857.

CRATÆGUS æstivalis. Torr. & Gray, Fl. 1. 468. Walp. Rep. 2. 58. Dietr. 3. 162. Nutt. Sylva, 2. 12. Chapman, 127. Wood, Cl.-Book, 331; Bot. & Fl. 111. Regel, Rev. Crat. in Trudi Imp. Peterb. Bot. Sada, 1. 124.

Mespilus æstivalis. Walter, 148. Lam. Dict. 4. 447.

C. elliptica & *lucida.* Elliott, 1. 548 & 549.

C. opaca. Hook. & Arn. Comp. Bot. Mag. 1. 25. Loud. Arb. 4. 2563.

Anthomeles æstivalis. Roem. Syn. Monog. 3. 141.

C. apiifolia. Michx. Fl. 1. 287. Persoon, 2. 38. Pursh, 336. Nutt. Genera, 1. 305. Elliott, 1. 552. DC. Prodr. 2. 627. Don, Mill. 2. 599. Audubon, Birds, **t. 192.** Hook. Comp. Bot. Mag. 1. 25. Torr. & Gray, Fl. 1. 467. Eat. & Wr. 212. Dietr. 3. 160. Loud. Arb. 2. 824, **t. 136** & **f. 588, 589.** Roem. Syn. Monog. 3. 121. Chapman, 127. Gray, Manual, 159; Hall's Pl. Texas, 9.

C. Oxyacantha? Walter, 147.

Mespilus apiifolia. Marsh. Arbust. 89. Poir. Suppl. 4. 68. Spreng. Syst. 2. 508. Spach, Hist. Veg. 2. 67.

Mespilus monogyna, var. *apiifolia.* Koch, Dendr. 1. 160.

C. Oxyacantha, var. *apiifolia.* Regel, Rev. Crat. 119.

C. arborescens. Elliott, 1. 550. Torr. & Gray, Fl. 1. 466. Eat. & Wr. 212. Dietr. 3. 160. Walp. Rep. 2. 58. Nutt. Sylva, 2. 10, **t. 45.** Chapman, 127. Wood, Cl.-Book, 331; Bot. & Fl. 111. Gray, Hall's Pl. Texas, 9. Young, Fl. Texas, 259.

Phænopyrum arborescens. Roem. Syn. Monog. 3. 153.
C. Crus-galli, var. *pyracanthifolia.* Regel, Rev. Crat. 109, in part.

C. berberifolia. Torr. & Gray, Fl. 1. 469. Dietr. 3. 159. Walp. Rep. 2. 50. Roem. Syn. Monog. 3. 115. Wood, Cl.-Book, 332. Regel, Rev. Crat. 123.
Mespilus berberifolia. Wenzig, Linnæa, 38. 125.

C. coccinea. Linn. Spec. 476. Walter, 147. Ait. Hort. Kew. 2. 167. Willd. Spec. 2. 1000, excl. syn. Michx. Fl. 1. 288. Persoon, 2. 36. Pursh, 337. Schrank, Pfl. Lab. 26. Elliott, 1. 553. Torrey, Fl. U. S. 474; Fl. N. Y. 1. 221; Emory's Rep. 408. DC. Prodr. 2. 627. Hook. Fl. Bor.-Am. 1. 201; Bot. Mag. t. **3432**. Don, Mill. 2. 599. Meyer, Pl. Lab. 82. Beck, Bot. 112. Lindl. Bot. Reg. 23, t. **1957**. Darling. Fl. Cestr. 293. Torr. & Gray, Fl. 1. 465. Bigel. Fl. Bost. 3 ed. 206. Eat. & Wr. 211. Nees, Pl. Neuwied, 9? Dietr. 3. 160. Walp. Rep. 2. 58. Loud. Arb. 2. 816, t. **121** & f. **564–566**. Emerson, Trees of Mass. 434, & 2 ed. 2. 493, t. Richard. Arct. Exped. 427. Gray, Pac. R. Rep. 12. 43; Manual, 169. Curtis, Bot. N. Car. 82. Lesqx. Fl. Ark. 359. Chapman, 127. Pl. Bourgeau, 256. Brandegee, Fl. S. W. Col. 236?
Mespilus coccinea. Marsh. Arbust. 87. Moench, Meth. 684. Poir. in Lam. Dict. 4. 442. Willd. Enum. 523. Wendl. in Regensb. Flora, 1823, 699. Spreng. Syst. 2. 507. Spach, Hist. Veg. 2. 64.
Mespilus rotundifolia. Ehrhart, Beitr. 3. 20. Wendl. l. c. 700. Watson, Dendr. Brit. 1, t. **58**. Koch, Dendr. 1. 148.
Pyrus glandulosa. Moench, Meth. 680.
C. glandulosa. Willd. Spec. 2. 1002, excl. syn. Pursh, 337, in part. Torrey, Fl. U. S. 475. DC. Prodr. 2. 627. Lodd. Bot. Cab. t. **1012**. Hook. Fl. Bor.-Am. 1. 201. Don, Mill. 2. 599. Beck, Bot. 112. Eat. & Wr. 211. Loud. Arb. 2. 817, t. **122** & f. **550, 567, 568**. Richard. Arct. Exped. 427. Curtis, Bot. N. Car. 84. Regel, Rev. Crat. 120.
Mespilus glandulosa. Willd. Enum. 523. Spreng. Syst. 2. 507. Spach, Hist. Veg. 2. 62. Koch, Dendr. 1. 145.
Mespilus pubescens. Wendl. in Regensb. Flora, 1823, 700.
C. Crus-galli. Bigel. Fl. Bost. 2 ed. 194.
Mespilus Wendlandii. Opiz, Regensb. Flora, 1834, 590.
C. macracantha. Lodd.; Loud. Arb. 2. 819, t. **125** & f. **572, 573**.
C. glandulosa, var. *macracantha.* Lindl. Bot. Reg. 22, t. **1912**.
Mespilus flabellata. Spach, Hist. Veg. 2. 63. Koch, Dendr. 1. 148.
Halmia flabellata & *Anthomeles rotundifolia.* Roem. Syn. Monog. 3. 136 & 140.
Phænopyrum coccineum & *Wendlandii.* Roem. l. c. 3. 156.

Var. **viridis.** Torr. & Gray, Fl. 1. 465. Torrey, Nicol. Rep. 149; Pac. R. Rep. 4. 86?
C. viridis. Linn. Spec. 476. Willd. Spec. 2. 1001. Persoon, 2. 36. Elliott, 1. 551. DC. Prodr. 2. 630. Don, Mill. 2. 601. Eat. & Wr. 212. Wood, Cl.-Book, 332; Bot. & Fl. 111.
Phænopyrum viride. Roem. Syn. Monog. 3. 156.
Mespilus viridis. Koch, Dendr. 1. 149.
C. glandulosa, var. *rotundifolia.* Regel, Rev. Crat. 120.

Var. **populifolia.** Torr. & Gray, Fl. 1. 465.
C. populifolia. Elliott, 1. 553. Eat. & Wr. 212.
Mespilus populifolia. Lam. Dict. 4. 447.
Phænopyrum populifolium. Roem. Syn. Monog. 3. 156.
C. coccinea, var. *typica.* Regel, Rev. Crat. 121.

Var. **oligandra.** Torr. & Gray, Fl. 1. 465.

C. cordata. Ait. Hort. Kew. 2. 168. Willd. Spec. 2. 1000. Persoon, 2. 36. Elliott, 1. 554. Torrey, Fl. U. S. 474. DC. Prodr. 2. 628. Watson, Dendr. Brit. t. **63**. Lindl. Bot. Reg. 14, t. **1151**. Hook. Fl. Bor.-Am. 1. 201. Don, Mill. 2. 599. Beck, Bot. 112. Darling. Fl. Cestr. 293. Torr. & Gray, Fl. 1. 467. Eat. & Wr. 211. Dietr. 3. 160. Loud. Arb. 2. 825, t. **137**. Richard. Arct. Exped. 427. Curtis, Bot. N. Car. 82. Chapman, 127. Gray, Manual, 159. Regel, l. c. 114.

Mespilus Phænopyrum. Ehrh.; Linn. f. Suppl. 254. Ehrh. Beitr. 1. 181 & 2. 67. Moench, Meth. 685. Poir. in Lam. Dict. 4. 446.

C. populifolia. Walter, 147. Pursh, 337.

Mespilus acerifolia. Burgsd.; Lam. Dict. 4. 442. Nouv. Duham. 4. 151. Spach, Hist. Veg. 2. 65.

Mespilus cordata. Willd. Enum. 1. 523. Spreng. Syst. 2. 507.

Phænopyrum cordatum & acerifolium. Roem. Syn. Monog. 3. 157.

C. Crus-galli. Linn. Spec. 476. Medicus, Bot. Beob. 2. 344. Walter, 147. Ait. Hort. Kew. 2. 170. Willd. Spec. 2. 1004. Michx. Fl. 1. 288. Persoon, 2. 37. Pursh, 338. Bigel. Fl. Bost. 194. Elliott, 1. 548. Torrey, Fl. U. S. 476; Fl. N. Y. 1. 221. Watson, Dendr. Brit. t. **56**. DC. Prodr. 2. 626. Hook. Fl. Bor.-Am. 1. 200; Comp. Bot. Mag. 1. 25. Don, Mill. 2. 598. Beck, Bot. 111. Darling. Fl. Cestr. 290. Torr. & Gray, Fl. 1. 464. Eat. & Wr. 212. Dietr. 3. 158. Loud. Arb. 2. 820, t. **126, 127,** & f. **574, 575**. Emerson, Trees of Mass. 433, & 2 ed. 2. 492, t. Roem. Syn. Monog. 3. 117. Curtis, Bot. N. Car. 83. Lesqx. Fl. Ark. 359. Chapman, 127. Gray, Manual, 160; Hall's Pl. Texas, 9. Regel, Rev. Crat. 108.

C. lucida. DuRoi, Obs. Bot. 13. Wangenh. Amer. 53, t. **17**, f. **42**. Spreng. Syst. 2. 506. DC. Prodr. 2. 629. Don, Mill. 2. 599. Eat. & Wr. 212.

Mespilus Crus-galli. Marsh. Arbust. 88. Poir. in Lam. Dict. 4. 441. Nouv. Duham. 4. 149. Willd. Enum. 522.

? *Mespilus cuneiformis.* Marsh. Arbust. 88.

Mespilus lucida. Ehrh. Beitr. 4. 17. Moench, Meth. 685. Spach, Hist. 2. 57.

Mespilus cuneifolia. Moench, Meth. 684.

Mespilus Watsoniana. Spach, Hist. Veg. 2. 57.

C. Watsoniana. Roem. Syn. Monog. 3. 117.

Var. **pyracanthifolia.** Ait. Hort. Kew. 2. 170. DC. Prodr. 2. 626. Torr. & Gray, Fl. 1. 464. Loud. Arb. 2. 820, t. **128**, & f. **580**. Regel, l. c. 109, in part.

C. salicifolia. Medicus, Bot. Beob. 2. 345. Roem. Syn. Monog. 3. 117.

C. Crus-galli, var. *salicifolia.* Ait. l. c. DC. Prodr. 2. 626. Loud. Arb. 2. 280, t. 129, & f. **551–553, 578**. Regel, Rev. Crat. 110.

Mespilus salicifolia. Koch, Dendr. 144.

C. Coursetiana. Roem. Syn. Monog. 3. 117.

Var. **ovalifolia.** Lindl. Bot. Reg. 22, t. **1860**. Torr. & Gray, Fl. 1. 464. Dietr. 3. 159. Loud. Arb. 2. 821, t. **130** & f. **579**. Regel, Rev. Crat. 109.

Mespilus ovalifolia. Hornem. Hort. Hafn. Suppl. 52.

Mespilus prunellifolia. Poir. Suppl. 4. 72.

C. ovalifolia & prunellifolia. DC. Prodr. 2. 627. Don, Mill. 2. 598. Roem. Syn. Monog. 3, 117.

Mespilus elliptica. Guimp. Otto & Hayne, t. **144**. Spach, Hist. Veg. 2. 68.

Var. **linearis.** DC. Prodr. 2. 626. Torr. & Gray, Fl. 1. 464. Dietr. 3. 159. Loud. Arb. 2. 821, f. **577**. Regel, Rev. Crat. 110.

Mespilus lucida, var. *angustifolia.* Ehrh. Beitr. 4. 18.

C. linearis. Persoon, 2. 37. Roem. Syn. Monog. 3. 118.

Mespilus linearis. Desf. Arb. 2. 156. Poir. Suppl. 4. 70. Spach, Hist. 2. 57.

Var. **prunifolia.** Torr. & Gray, Fl. 1. 464. Dietr. 3. 159. Loud. Arb. 2. 821, **t. 131** & **f. 576.** Regel, Rev. Crat. 110.

Mespilus prunifolia. Marsh. Arbust. 90 ? Poir. in Lam. Dict. 4. 443. Nouv. Duham. 4. 150, **t. 40.** Spreng. Syst. 2. 505.

Mespilus rotundifolia. Ehrh. Beitr. 3. 20.

C. prunifolia. Persoon, 2. 37. Bosc.; DC. Prodr. 2. 627. Don, Mill. 2. 598. Lindl. Bot. Reg. 22, **t. 1868.** Eat. & Wr. 212. Roem. Syn. Monog. 3. 118.

Mespilus Bosciana. Spach, Hist. Veg. 2. 58.

C. Bosciana. Roem. Syn. Monog. 3. 119.

C. Douglasii. Lindl. Bot. Reg. 21, **t. 1810.** Loud. Arb. 3. 823, **t. 134,** & **f. 584.** Brew. & Wats. Bot. Calif. 1. 189.

? *C. glandulosa.* Pursh, 337, in part.

C. punctata, var. *brevispina.* Dougl.; Hook. Fl. Bor.-Am. 1. 201. Loud. l. c.

C. sanguinea, var. *Douglasii.* Torr. & Gray, Fl. 1. 464. Walp. Rep. 2. 58. Dietr. 3. 160. Nutt. Sylva, 2. 6, **t. 44.** Coulter, Hayd. Rep. 1872, 765. Torrey, Bot. Wilkes, 292. Regel, Rev. Crat. 116.

Anthomeles Douglasii. Roem. Syn. Monog. 3. 140.

C. sanguinea. Cooper, Am. Naturalist, 3. 407.

C. flava. Ait. Hort. Kew. 2. 169. Willd. Spec. 2. 1002. Persoon, 2. 37. Pursh, 338. DC. Prodr. 2. 628. Watson, Dendr. Brit. **t. 59.** Don, Mill. 2. 600. Lindl. Bot. Reg. 23, **t. 1939.** Torr. & Gray, Fl. 1. 468. Eat. & Wr. 211. Dietr. 3. 160. Loud. Arb. 2. 823, **t. 135,** & **f. 585.** Curtis, Bot. N. Car. 83. Lesqx. Fl. Ark. 359. Chapman, 128. Gray, Manual, 160. Regel, Rev. Crat. 122.

C. glandulosa. Ait. l. c. 168. Persoon, 2. 37. Poir. Suppl. 4. 69, in part.

Mespilus Caroliniana. Poir. in Lam. Dict, 4. 442. Elliott, 1. 554. Spreng. Syst. 2. 507.

C. Caroliniana. Persoon, 2. 36. Elliott, 1. 554. Eat. & Wr. 212.

Mespilus flava. Willd. Enum. 523. Poir. Suppl. 4. 70. Watson, Dendr. Brit. **t. 59.** Spach, Hist. Veg. 2. 59.

C. turbinata. Pursh, 725. Poir. Suppl. 5. 543. Elliott, 1. 549. DC. Prodr. 2. 627. Don, Mill. 2. 599. Eat. & Wr. 212.

Mespilus turbinata. Spreng. Syst. 2. 506. Spach, Hist. Veg. 2. 66.

C. flava, var. *lobata.* Lindl. Bot. Reg. **t. 1932.**

C. lobata. Bosc.; DC. Prodr. 2. 628. Don, Mill. 2. 599. Loud. Arb. 2. 824, **f. 554, 586.**

Phænopyrum Carolinianum. Roem. Syn. Monog. 3. 152.

Anthomeles flava, glandulosa & *turbinata.* Roem. l. c. 3. 141.

Mespilus flexispina. Koch, Dendr. 1. 139.

Var. **pubescens.** Gray, Manual, 160.

Mespilus hiemalis. Walter, 148. Lam. Dict. 4. 447.

C. viridis. Walter, 147. Elliott, 1. 551.

C. elliptica. Ait. Hort. Kew. 2. 168. Willd. Spec. 2. 1002. Persoon, 2. 37. Pursh, 337. Torrey, Fl. U. S. 475. DC. Prodr. 2. 627. Hook. Fl. Bor.-Am. 1. 201. Don, Mill. 2. 598. Beck, Bot. 33. Torr. & Gray, Fl. 1. 469. Eat. & Wr. 211. Dietr. 3. 159. Regel, Rev. Crat. 122.

Mespilus elliptica. Lam. l. c. Wenzig, Linnæa, 38. 125. Koch, Dendr. 1. 140.

C. glandulosa. Michx. Fl. 1. 288. Chapman, 128.

C. Michauxii. Persoon, 2. 38.

C. spathulata. Pursh, 336. DC. Prodr. 2. 627. Lindl. Bot. Reg. 22, **t. 1890.** & 23, under t. 1957.

Mespilus Michauxii. Hornem. Hort. Hafn. 455. Poir. Suppl. 4. 69.
C. flava. Elliott, 1. 551.
C. Virginica. Lodd.; Loud. Arb. 2. 842, **f. 560, 615.**
Phænopyrum ellipticum & *Virginicum.* Roem. Syn. Monog. 3. 155.

C. Oxyacantha, Linn. Beck, Bot. 112. Darling. Fl. Cestr. 294. Torr. & Gray, Fl. 1. 463. Eat. & Wr. 212. Torrey, Fl. N. Y. 1. 221. Gray, Manual, 159.

C. parvifolia. Ait. Hort. Kew. 2. 169. Willd. Arb. 85; Spec. 2. 1002. Pursh, 338. Elliott, 1. 547. Torrey, Fl. U. S. 475. DC. Prodr. 2. 627. Don, Mill. 2. 598. Beck, Bot. 111. Hook. Comp. Bot. Mag. 1. 25. Darling. Fl. Cestr. 291. Torr. & Gray, Fl. 1. 469. Eat. & Wr. 211. Dietr. 3. 159. Loud. Arb. 2. 841, **f. 557–559, 614–616.** Curtis, Bot. N. Car. 84. Chapman, 128. Gray, Manual, 160.
C. uniflora. Muench. Hausv. 5. 147. DuRoi, Harbk. 184.
Mespilus flexispina. Moench, Hort. Weiss. 62, **t. 4**; Meth. 685. Wenzig, Linnæa, 38. 127.
Mespilus xanthocarpa. Ehrh.; Linn. f. Suppl. 254. Ehrh. Beitr. 1. 182 & 2. 67. Poir. Suppl. 4. 67. Spreng. Syst. 2. 506.
Mespilus Oxyacantha aurea. Marsh. Arbust. 89.
Mespilus laciniata. Walter, 147. Lam. Dict. 4. 447.
C. tomentosa. Michx. Fl. 1. 289. Regel, Rev. Crat. 122, mostly.
Mespilus parvifolia. Willd. Enum. 523. Spach, Hist. Veg. 2. 55.
Mespilus axillaris. Persoon, 2. 39.
? *C. unilateralis.* Persoon, 2. 37. DC. Prodr. 2. 629. Don, Mill. 2. 598. Roem. Syn. Monog. 3. 116.
Mespilus tomentosa. Poir. in Nouv. Duham. 4. 153.
Mespilus unilateralis. Poir. Suppl. 4. 73.
Mespilus flexuosa. Poir. Suppl. 4. 73. DC. Prodr. 2. 627. Don, Mill. 2. 598.
Anthomeles flexispina. Roem. Syn. Monog. 3. 142.
Phænopyrum uniflorum & *parvifolium.* Roem. Syn. Monog. 3. 152 & 153.
Mespilus uniflora. Wenzig, Linnæa, 38. 123.

C. Pyracantha, Pers. Gray, Manual, 159.

C. rivularis. Nutt.; Torr. & Gray, Fl. 1. 464. Dietr. 3. 161. Walp. Rep. 2. 58. Nutt. Sylva, 2. 9. Cooper, Am. Naturalist, 3. 407. Regel, Rev. Crat. 107. Watson, King's Rep. 5. 92? Porter, Hayd. Rep. 1871, 482? Coulter, same, 1872, 765? Brandegee, Fl. S. W. Colorado, 236? Brew. & Wats. Bot. Calif. 1. 189.
C. —— ? Durand, Fl. Utah, 164.

C. spathulata. Michx. Fl. 1. 288. Persoon, 2. 37. Barton, Comp. Fl. Philad. 1. 226. Elliott, 1. 552. Lodd. Bot. Cab. **t. 1261.** Don, Mill. 2. 599. Hook. Comp. Bot. Mag. 1. 25. Gray, in Lindl. Bot. Reg. under t. 1957; Manual, 159; Hall's Pl. Texas, 9. Torr. & Gray, Fl. 1. 467. Eat. & Wr. 212. Dietr. 3. 160. Loud. Arb. 2. 825, **t. 138** & **f. 591.** Curtis, Bot. N. Car. 83. Chapman, 126. Ridgway, Am. Naturalist, 6. 728.
Mespilus Azarolus. Marsh. Arbust. 89.
Mespilus spathulata. Poir. Suppl. 4. 68. Spreng. Syst. 2. 507. Spach, Hist. Veg. 2. 66. Koch, Dendr. 1. 137.
C. microcarpa. Lindl. Bot. Reg. 22, **t. 1846.**
Phænopyrum spathulatum. Roem. Syn. Monog. 3. 355.

C. subvillosa. Schrader, Ind. Sem. h. Gœtt. Torrey, Pac. R. Rep. 4. 85.
C. coccinea, var. (?) *mollis.* Torr. & Gray, Fl. 1. 465. Gray, Pl. Lindh. 186. Parry, Pl. Minn. 612. Regel, Rev. Crat. 121.
Phænopyrum subvillosum. Roem. Syn. Monog. 3. 154.

C. mollis. Scheele, Linnæa, 21. 569. Walp. Ann. 2. 523.

C. sanguinea, var. *villosa.* Rupr. & Maxim. Prim. Fl. Amur. 101.

C. Texana. Buckley, Proc. Acad. Philad. 1861, 454; fide Gray, same, 1862, 163. Young, Fl. Texas, 258.

C. tomentosa, var. *mollis.* Gray, Manual, 160.

Mespilus tiliæfolia. Koch, Dendr. 1. 151.

C. tomentosa. Linn. Spec. 476, excl. syn. Gronov. DuRoi, Harbk. 1. 183. Torr. & Gray, Fl. 1. 466. Dietr. 3. 160. Torrey, Fl. N. Y. 1. 222. Emerson, Trees of Mass. 1. 435 & 2 ed. 2. 494, **t.** Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 191. Lesqx. Fl. Ark. 359. Curtis, Bot. N. Car. 83. Chapman, 127. Pl. Bourgeau, 256. Gray, Manual, 160.

C. leucophæos. Moench, Hort. Weiss. 31, **t. 2.** Regel, Rev. Crat. 106.

Mespilus Calpodendron. Ehrh. Beitr. 2. 67.

Mespilus latifolia. Poir. in Lam. Dict. 4. 444; Nouv. Duham. 4. 150. Spach, Hist. Veg. 2. 60.

C. latifolia. Persoon, 2. 36. Don, Mill. 2. 598. Eat. & Wr. 212. Roem. l. c. 119.

Mespilus lobata. Poir. Suppl. 4. 71.

Mespilus odorata & pruinosa. Wendl. in Regensb. Flora, 1823, 700.

C. lobata. Bosc.; DC. Prodr. 2. 628.

C. flava. Hook. Fl. 1. 202, excl. syn. ? Darling. Fl. Cestr. 202.

Halmia tomentosa & lobata & Phænopyrum pruinosum. Roem. l. c. 3. 135 & 155.

Var. **pyrifolia.** Gray, Manual, 160.

C. pyrifolia. Ait. Hort. Kew. 2. 168. Willd. Spec. 2. 1001. Persoon, 2. 36. Nouv. Duham. 4. 131. Poir. Suppl. 1. 292. Pursh, 337. Elliott, 1. 550. Torrey, Fl. U. S. 475. DC. Prodr. 2. 627. Hook. Fl. Bor.-Am. 1. 201. Don, Mill. 2. 599. Lindl. Bot. Reg. 22, **t. 1877.** Eat. & Wr. 211. Loud. Arb. 2. 819, **t. 124** & **f. 571.**

Mespilus pyrifolia. Willd. Enum. 523. Spreng. Syst. 2. 507. Spach, l. c.

Var. **punctata.** Gray, Manual, 2 ed. 124. Chapman, 127. Porter, Hayd. Rep. 1871, 481 ?

C. punctata. Jacq. Hort. Vindob. 1. 10, **t. 28.** Ait. Hort. Kew. 2. 169. Willd. Spec. 2. 1004. Michx. Fl. 1. 289. Persoon, 1. 37. Pursh, 338. Elliott, 1. 548. Torrey, Fl. U. S. 476; Fl. N. Y. 1. 222. DC. Prodr. 2. 627. Hook. Fl. Bor.-Am. 1. 201, excl. var.; Comp. Bot. Mag. 1. 25. Don, Mill. 2. 598. Beck, Bot. 111. Darling. Fl. Cestr. 201. Torr. & Gray, Fl. 1. 466. Eat. & Wr. 211. Dietr. 3. 159. Loud. Arb. 2. 818, **t. 123**, & **f. 569, 570.** Emerson, Trees of Mass. 435 & 2 ed. 2. 495. Gray, Manual, 1 ed. 128. Engelm. Pl. Upp. Miss. 191. Richard. Arct. Exped. 427. Lesqx. Fl. Ark. 359. Wood, Bot. & Fl. 111.

Mespilus cornifolia. Muench. Hausv. 5. 145. Poir. in Lam. Dict. 4. 444. Koch, Dendr. 1. 134.

C. Crus-galli. Wangenh. Amer. 52. DuRoi, Harbk. 1. 195.

Mespilus cuneifolia. Ehrh. Beitr. 3. 21. Spreng. Syst. 2. 506. Spach, l. c.

Mespilus punctata. Nouv. Duham. 4. 152. Willd. Enum. 524. Poir. Suppl. 4. 70. Watson, Dendr. Brit. **t. 57.** Spach, l. c. 61. Wenzig, Linnæa, 38. 128.

Mespilus pyrifolia. Desf. Hist. Arb. 2. 155.

C. latifolia. DC. Prodr. 2. 627.

? *C. flexuosa.* Schweinitz, Long's Exped. 2, Appx. 112.

C. cuneifolia & obovatifolia. Roem. Syn. Monog. 3. 118 & 120.

Halmia punctata & cornifolia. Roem. l. c. 3. 134.

C. tomentosa, var. *plicata.* Wood, Cl.-Book, 330.

C. arbutifolia; Heteromeles arbutifolia.
Bosciana; Crus-galli.
Caroliniana; flava.
coccinea; subvillosa.
Coursetiana; Crus-galli.
Crus-galli; arborescens, coccinea, tomentosa.
cuneifolia; tomentosa.
elliptica; æstivalis, flava.
flava & flexuosa; tomentosa.
glandulosa; coccinea, Douglasii, flava.
latifolia & leucophæos; tomentosa.
linearis; Crus-galli.
lobata; flava, tomentosa.
lucida; æstivalis, Crus-galli.
macracantha; coccinea.
Michauxii; flava.
microcarpa; spathulata.
mollis; subvillosa.
obovatifolia; tomentosa.
opaca; æstivalis.
C. ovalifolia; Crus-galli.
Oxyacantha; apiifolia.
populifolia; coccinea, cordata.
prunifolia; Crus-galli.
punctata; Douglasii, tomentosa.
pyrifolia; tomentosa, Pyrus arbutifolia.
racemosa; Amelanchier Canadensis.
salicifolia; Crus-galli.
sanguinea; Douglasii, subvillosa.
serrulata; Pyrus arbutifolia.
spathulata; flava.
spicata; Amelanchier Canadensis.
Texana; subvillosa.
tomentosa; parvifolia, subvillosa, Amelanchier Canadensis.
turbinata; flava.
uniflora & unilateralis; parvifolia.
Virginica; flava.
viridis; coccinea, flava.
Watsoniana; Crus-galli.
——— ? rivularis.

DRYAS octopetala. Linn. Spec. 501. See syn. in Ledeb. Fl. Ross. 2. 20; Middend. Fl. Taimyr. 47; Regel. & Tiling, Fl. Ajan, 81; Pritzel, Icon. Bot. 83. — Pursh, 350. Schrank, Pfl. Lab. 28. James, Cat. 182. DC. Prodr. 2. 549. Torrey, Ann. Lyc. N. Y. 2. 195. Hook. Fl. Bor.-Am. 1. 174. Meyer, Pl. Lab. 77. Spach, Hist. Veg. 1. 477. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 420. Eat. & Wr. 230. Babington, Ann. & Mag. Nat. Hist. 10, 181, **t. 7**. Seem. Bot. Herald, 29. Durand, Journ. Acad. Philad. 1856, 189 (Kane's Exped. 2. 452); Proc. Acad. Philad. 1863, 94. Hook. f. Journ. Linn. Soc. 1. 116 & 124; Arct. Pl. 289 & 325. Dickie, Journ. Linn. Soc. 3. 111. Regel, Gart. Fl. 9, **t. 286**. Gray, Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 61. Rothr. Fl. Alask. 445; Pl. Wheeler, 37. Watson, King's Rep. 5. 84. Coulter, Hayd. Rep. 1872, 765. Porter, Fl. Col. 34.

D. chamædrifolia. Persoon, 2. 57.

Var. **integrifolia.** Cham. & Schlecht. in Linnæa, 2. 3. Hook. f. in Journ. Linn. Soc. 5. 83. Dickie, same, 11. 33.

D. integrifolia. Vahl, Act. Hafn. 4. 177; Fl. Dan. **t. 1216**. Persoon, 2. 57. R. Brown, Ross Voy. 142; Parry's 1st Voy. 276 (Regensb. Flora, 1824, Beil. 85). Greville, Mem. Soc. Wern. 3. 429. Goldie, Edinb. Phil. Journ. 6. 329. Torrey, Fl. U. S. 492. Spreng. Syst. 2. 527. DC. Prodr. 2. 549. Hook. Exot. Fl. **t. 220**; Fl. Bor.-Am. 1. 174. Don, Mill. 2. 525. Beck, Bot. 100. Schlecht. Fl. Lab. in Linnæa, 10. 98. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 420. Bigelow, Fl. Bost. 3 ed. 219. Eat. & Wr. 230. Dietr. 3. 193. Ledeb. Fl. Ross. 2. 20. Seem. Bot. Herald, 29, 52 & 55. Durand, Journ. Acad. Philad. 1856, 190 (Kane's Exped. 2. 453); Proc. Acad. Philad. 1863, 94. Lange, Pl. Groenl. 134. Hook. f. Journ. Linn. Soc. 1. 116, 121 & 124. Dickie, same, 3. 111. Gray, Manual, 151.

D. tenella. Pursh, 350. Poir. Suppl. 5. 661. Don, Mill. 525.

Var. **Drummondii.**

D. chamædrifolia. Richard. Frankl. Journ. 12.

D. Drummondii. Hook. Bot. Mag. **t. 2972**; Fl. Bor.-Am. 1. 174. Don, Mill. 2. 525. Spach, Hist. Veg. 1. 478. Torr. & Gray, Fl. 1. 420. Eat. & Wr. 230. Dietr. 3. 193. Walp. Rep. 2. 49. Ledeb. Fl. Ross. 2. 20. Hook. f. Arct. Pl. 289, Pl. Bourgeau, 256. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 322.

FALLUGIA paradoxa. Endlicher, Gen. Pl. 1246. Torrey, Emory's Rep. 140, **t. 2**; Sitgr. Rep. 159; Pac. R. Rep. 4. 4 & 84; Mex. Bound. 64. Engelm. in Wisliz. Rep. 6. Gray, Pl. Fendl. 41; Pl. Wright. 1. 68 & 2. 55. Torr. & Gray, Pac. R. Rep. 2. 164. Porter, Fl. Col. 35. Rothr. Pl. Wheeler, 37. Brew. & Wats. Bot. Calif. 1. 175.

Sieversia paradoxa. D. Don, Trans. Linn. Soc. 14. 575, **t. 22, f. 7–10.** Spreng. Syst. 4, Appx. 199. Don, Mill. 2. 528, **f. 70.** Dietr. 3. 193. Nutt. Pl. Gamb. in Journ. Acad. Philad. 1. 181.

Geum (?) *cercocarpoides.* Moç. & Sesse, Icon. Fl. Mex. ined. **t. 296.** DC. Prodr. 2. 554. Fisch. & Mey. Ind. Sem. Petrop. 11, Suppl. 54.

F. Mexicana. Walp. Rep. 2. 46.

FRAGARIA Californica. Cham. & Schlecht. in Linnæa, 2. 30. Hook. & Arn. Bot. Beechey, 140. Brew. & Wats. Bot. Calif. 1. 177.

F. vesca, var. γ. Torr. & Gray, Fl. 1. 448, in part.

F. vesca. Benth. Pl. Hartw. 309. Seem. Bot. Herald, 282.

F. lucida. Vilmorin; Gay, Ann. Sci. Nat. 4. 8. 201. Gard. Chronicle, 1858, 877. Decaisne, Jard. Fruit. Mus. Frag. 51, **t.**

F. Chilensis. Duchesne, Lam. Dict. 2. 537. Ehrhart, Beitr. 7. 24. Willd. Spec. 2. 1091. Seringe, DC. Prodr. 2. 571. Cham. & Schlecht. in Linnæa, 2. 20. Hook. Fl. Bor.-Am. 1. 185. Don, Mill. 2. 545. Hook. & Arn. Bot. Beechey, 140. Torr. & Gray, Fl. 1. 448. Eat. & Wr. 246. Dietr. 3. 177. Benth. Bot. Sulph. 14. Gay, Fl. Chil. 2. 305. Torrey, Pac. R. Rep. 4. 85; Mex. Bound. 64; Bot. Wilkes, 290. Newberry, Pac. R. Rep. 6. 73. J. Gay, Ann. Sci. Nat. 4. 8. 200. Cooper, same, 12. 23 & 60. Boland. Cat. 11. Decaisne, l. c. 52, **t.** Brew. & Wats. Bot. Calif. 1. 177.

F. vesca, var. *Chiloensis.* Linn. Spec. 495.

Var. **Scouleri.** Hook. Fl. Bor.-Am. 1. 185.

F. Chilensis, var. β., and γ. in part. Torr. & Gray, Fl. 1. 448.

F. Californica. Newberry, Pac. R. Rep. 6. 73.

F. Indica, Andr. Gray, Manual, 156.

Potentilla Durandii. Torr. & Gray, Fl. 1. 444. Dietr. 3. 181. Walp. Rep. 2. 34.

F. vesca. Linn. Spec. 494, excl. var. See J. Gay, Ann. Sci. Nat. 4. 8. 196.—Raf. Med. Bot. 1. 189, **f. 38.** Hook. Fl. Bor.-Am. 1. 184. Don, Mill. 2. 542. Beck. Bot. 105. Torr. & Gray, Fl. 1. 448. Torrey, Fl. N. Y. 1. 212; Pac. R. Rep. 4. 85; Mex. Bound. 64; Bot. Wilkes, 290. Gray, Pl. Fendl. 42; Pac. R. Rep. 12. 43; Manual, 156. Engelm. Pl. Upp. Miss. 191. Seem. Bot. Herald, 282. Vilmorin, Jard. Fruit. Mus. 1, **t.** Cooper, Pac. R. Rep. 12. 60. Hook. f. Arct. Pl. 290 & 329. Boland. Cat. 11. Watson, King's Rep. 5. 85. Brown, Torr. Bot. Bull. 2. 30. Coulter, Hayd. Rep. 1872, 765. Porter, Fl. Col. 35. Decaisne, Jard. Fruit. Mus. Frag. 27, **t.** Brew. & Wats. Bot. Calif. 1. 177.

F. Virginiana. Duchesne, Lam. Dict. 2. 539. Ehrh. Beitr. 7. 24. Willd. Spec. 2. 1091. Persoon, 2. 53. Ait. f. Hort. Kew. 3. 272. Pursh, 357. Bigelow, Fl. Bost. 202. Elliott, 1. 575. Torrey, Fl. U. S. 500; Fl. N. Y. 1. 211; Nicol. Rep. 149; Emory's Rep. 408. Spreng. Syst. 2. 533. Seringe, DC. Prodr. 2. 570. Hook. Fl. Bor.-Am. 1. 184; Comp. Bot. Mag. 1. 35; Lond. Journ. Bot. 6. 219. Don, Mill.

2. 543. Beck, Bot. 105. Spach, Hist. Veg. 1. 466. Darling. Fl. Cestr. 304. Torr. & Gray, Fl. 1. 448. Eat. & Wr. 246. Dietr. 3. 177. Gray, Pl. Fendl. 42; Manual, 155. Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 191. Seem. Bot. Herald, 52. Vilmorin, Jard. Fruit. Mus. Frag. 3, **t.** Cooper, Pac. R. Rep. 12. 59. J. Gay, Ann. Sci. Nat. 4. 8. 201. Chapman, 124. Pl. Bourgeau, 256 & 262. Anderson, Cat. Pl. Nev. 120. Coulter, Hayd. Rep. 1872, 765. Rothr. Pl. Wheeler, 37. Decaisne, l. c. 43, **t.** Brew. & Wats. Bot. Calif. 1. 177.

F. vesca. Walter, 150.

? *F. Caroliniana.* Duchesne, Lam. Dict. 2. 539.

F. vesca, var. *Virginiana.* Ait. Hort. Kew. 2. 211.

F. Canadensis. Michx. Fl. 1. 299. Elliott, 1. 575. Richard. Frankl. Journ. 11. Spreng. Syst. 2. 533. Seringe, DC. Prodr. 2. 571. Hook. Fl. Bor.-Am. 1. 185. Don, Mill. 2. 546. Beck, Bot. 105. Eat. & Wr. 246. Presl, Epimel. Bot. 198.

Var. **Illinoensis.** Gray, Manual, 155. Porter, Fl. Col. 35. Brew. & Wats. Bot. Calif. 1. 177.

? *F. elatior.* Eaton, Manual, 1818, 249. Nees, Pl. Neuwied, 8.

F. Illinoensis & *Iowensis.* Prince.

F. Grayana. Vilmorin; J. Gay, Ann. Sci. Nat. 4. 8. 202. Decaisne, l. c. 47, **t.**

Var. **glauca.** Watson, King's Rep. 5. 85; Pl. Wheeler, 8.

GEUM album. Gmel. Syst. 2. 861. Willd. Enum. 1. 556. Pursh, 351. Poir. Suppl. 5. 574. Elliott, 1. 572. James, Long's Exped. 1. 317. Torrey, Fl. U. S. 493. Bigel. Fl. Bost. 2 ed. 207. Tratt. Ros. Monog. 3. 117. Spreng. Syst. 2. 542. Seringe, DC. Prodr. 2. 550. Don, Mill. 2. 526. Beck, Bot. 101. Hook. Comp. Bot. Mag. 1. 24. Fisch. & Meyer, Ind. Sem. Petrop. 3. 34 (Litt.-Ber. zu Linnæa, 12. 93). Eat. & Wr. 254. Meyer, Ind. Sem. Petrop. 11. 30. Engelm. Pl. Upp. Miss. 190. Chapman, 123. Gray, Manual, 152; Am. Journ. Sci. 3. 3. 306. Scheutz, Prod. Monog. Georum in Acta Soc. Upsal. 3. 7. 23.

G. Canadense. Jacq. Hort. Vind. 2. 82, **t. 175**, not Murr.

G. Carolinianum. Walter, 150. Seringe, DC. Prodr. 2. 554.

Caryophyllata alba. Moench, Meth. 660.

G. Virginianum. Murr. Comm. Gœtt. 5. 30, **t. 3.** Hook. Fl. Bor.-Am. 1. 175. Torr. & Gray, Fl. 1. 421. Eat. & Wr. 254. Dietr. 3. 491. Torrey, Fl. N. Y. 1. 202. Gray, Manual, 1 ed. 120, in part. Wood, Cl.-Book, 338, in part.

Sieversia Caroliniana. Don, Mill. 2. 528.

? *G. agrimonoides.* Meyer, Ind. Sem. Petrop. 11. 28, not Pursh. Scheutz, Monog. 32; fide Gray, Am. Journ. Sci. 3. 3. 307.

G. urbanum. Gray, Manual, 4 ed. xcii.

G. anemonoides. Willd. Spec. 2. 1117. See syn. in Ledeb. Fl. Ross. 2. 24 (under *Sieversia*); Regel & Tiling, Fl. Ajan. 82; Scheutz, Monog. 54. — Persoon, 2. 57. Pursh, 352. Tratt. Ros. Monog. 3. 138. Seringe, DC. Prodr. 2. 553. Torr. & Gray, Fl. 1. 423. Engelm. Pl. Upp. Miss. 19[illegible]

Sieversia anemonoides. Willd. in Berl. Mag. 3. 398. Spreng. Syst. 2. 543. Hook. Fl. 1. 176. Eat. & Wr 426.

G. calthifolium. Menzies; Smith in Rees Cyc. 5. 16. Seringe, DC. Prodr. 2. 552. Don, Mill. 2. 527. Torr. & Gray, Fl. 1. 425. Walp. Rep. 2. 48. Rothr. Fl. Alask. 445. Scheutz, Monog. 58.

G. radiatum. Pursh, 352, not Michx.

Sieversia dilatata. R. Br. in Parry's 1st Voy. 276.

Sieversia radiata. Hook. Fl. Bor.-Am. 1. 177, not Br. Don, Mill. 2. 528.

Sieversia calthifolia. D. Don.; Dietr. 3. 193. Meyer, Ind. Sem. Petrop. 11. 54.

Var. **rotundifolium.** Torr. & Gray, Fl. 1. 425. Walp. Rep. 2. 48.

G. rotundifolium. Langsd.; Fisch. in Mem. Soc. Mosc. 2. 187, **t. 11, f. 17.** Seringe, DC. Prodr. 2. 552. Tratt. Ros. Monog. 3. 131. Considered distinct by Scheutz, Monog. 57, including the following variety.

Sieversia rotundifolia. Cham. & Schlecht. in Linnæa, 2. 4. Bongard, Veg. Sitch. 132. Ledeb. Fl. Ross. 2. 24.

Var. **congestum.** Torr. & Gray, Fl. 1. 425. Walp. l. c.

Sieversia congesta. R. Br. in Parry's 1st Voy. 276.

G. geniculatum. Michx. Fl. 1. 300. Persoon, 2. 57. Poir. Suppl. 1. 617. Pursh, 351. Tratt. Ros. Monog. 3. 143. Seringe, DC. Prodr. 2. 554. Beck, Bot. 101. Torr. & Gray, Fl. 1. 422. Eat. & Wr. 254. Dietr. 3. 192. Gray, Am. Journ. Sci. 1. 42. 35 (Lond. Journ. Bot. 2. 119); same, 3. 3. 307. Meyer, Ind. Sem. Petrop. 11. 54. Chapman, 123. Scheutz, Monog. 39.

G. Virginianum. Spreng. Syst. 2. 542.

G. glaciale. Fisch. in Mem. Soc. Mosc. 2. 187, **t. 11, f. 20.** Adams, same, 5. 96. Seringe, DC. Prodr. 2. 553. Torr. & Gray, Fl. 1. 423. Seem. Bot. Herald, 29. Rothr. Fl. Alask. 445. Scheutz, Monog. 52.

Sieversia glacialis. R. Br. in Parry's 1st Voy. 276. Cham. & Schlecht. in Linnæa, 2. 5. Spreng. Syst. 2. 543. Hook. Fl. Bor.-Am. 1. 176. Hook. & Arn. Bot. Beechey, 123. Eat. & Wr. 426. Ledeb. Fl. Ross. 2. 25. Hook. f. Arct. Pl. 289.

G. macrophyllum. Willd. Enum. 1. 557. Spreng. Syst. 2. 542. Seringe, DC. Prodr. 2. 550. Cham. & Schlecht. in Linnæa, 2. 4. Bongard, Veg. Sitch. 132. Don, Mill. 2. 525. Fisch. & Meyer, Ind. Sem. Petrop. 3. 35 (Litt.-Ber. zu Linnæa, 12. 95). Torr. & Gray, Fl. 1. 421. Ledeb. Fl. Ross. 2. 23. Dietr. 3. 191. Meyer, Ind. Sem. Petrop. 11. 25. Hook. in Lond. Journ. Bot. 6. 218. Gray, Pl. Fendl. 40; Manual, 152; Proc. Am. Acad. 8. 381; Am. Journ. Sci. 3. 3. 306. Presl, Epimel. Bot. 196. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 59. Rothr. Fl. Alask. 445; Pl. Wheeler, 37. Matthew, Fl. Acad. 15. Watson, King's Rep. 5. 84; Pl. Wheeler, 8. Coulter, Hayd. Rep. 1872, 765. Porter, Fl. Col. 35. Torrey, Bot. Wilkes, 287. Brew. & Wats. Bot. Calif. 1. 176. Referred to *G. Japonicum* by Scheutz, Monog. 31.

G. strictum, var. *β.* Hook. Fl. Bor.-Am. 1. 175.

G. radiatum. Michx. Fl. 1. 300. Poir. Suppl. 1. 617. Pursh, 532. Elliott, 1. 573. Seringe, DC. Prodr. 2. 554. Torr. & Gray, Fl. 1. 424. Eat. & Wr. 254. Chapman, 123. Gray, Manual, 153. Scheutz, Monog. 55.

Sieversia radiata. R. Br. in Parry's 1st Voy. 276. Eat. & Wr. 414. Dietr. 3. 193. Meyer, Ind. Sem. Petrop. 11. 54.

Var. **Peckii.** Gray, Manual, 153.

G. Peckii. Pursh, 352. Poir. Suppl. 5. 574. Nutt. Genera, 1. 309. Bigel. Fl. Bost. 2 ed. 208. Torrey, Fl. U. S. 494. Spreng. Syst. 2. 543. Seringe, DC. Prodr. 2. 554. Beck, Bot. 101. Torr. & Gray, Fl. 1. 424. Eat. & Wr. 254. Gray, Manual, 1 ed. 121. Wood, Cl.-Book, 338. Scheutz, Monog. 56.

Sieversia Peckii. R. Br. in Parry's 1st Voy. 276. Hook. Bot. Mag. **t. 2863.** Don, Mill. 2. 528. Dietr. 3. 193. Meyer, Ind. Sem. Petrop. 11. 54.

G. rivale. Linn. Spec. 501. See syn. in Ledeb. Fl. Ross. 2. 23; Pritzel, Icon. Bot. 493; Scheutz, l. c. 37. — Willd. Spec. 2. 1115. Michx. Fl. 1. 301. Pursh, 351. Bigel. Fl. Bost. 206. Torrey, Fl. U. S. 493; Fl. N. Y. 1. 203. Spreng. Syst. 2. 542. Seringe, DC. Prodr. 2. 551, excl. var. *β.* Hook. Fl. Bor.-Am. 1. 175. Don, Mill. 2. 526. Beck, Bot. 101. Fisch. & Meyer, Ind. Sem. Petrop. 3. 39 (Litt.-Ber. zu Linnæa, 12. 98). Torr. & Gray, Fl. 1. 422. Eat. & Wr. 254. Dietr. 3. 191. Meyer,

Ind. Sem. Petrop. 11. 47. Gray, Pl. Fendl. 41; Am. Journ. Sci. 2. 33. 411; Manual, 152. Engelm. Pl. Upp. Miss. 191. Hook. f. Arct. Pl. 289. Pl. Bourgeau, 256. Porter, Fl. Col. 35. Rothr. Pl. Wheeler, 37.

G. Rossii. Seringe, DC. Prodr. 2. 553. Torr. & Gray, Fl. 1. 424. Gray, Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 61. Rothr. Fl. Alask. 445. Watson, King's Rep. 5. 84; Pl. Wheeler, 8. Porter, Hayd. Rep. 1871, 481; Fl. Col. 35. Scheutz, Monog. 59. Rothr. Pl. Wheeler, 37.

Sieversia Rossii. R. Br. in Parry's 1st Voy. 276, **t. C** (Regensb. Flora, 7², Beil. 85). Spreng. Syst. 4². 199. Cham. & Schlecht. in Linnæa, 2. 5. Hook. Fl. Bor.-Am. 1. 176. Don, Mill. 2. 528. Eat. & Wr. 426. Ledeb. Fl. Ross. 2. 25. Dietr. 3. 193. Hook. f. Journ. Linn. Soc. 1. 124; Arct. Pl. 289.

Potentilla nivalis. Torrey, Ann. Lyc. N. Y. 1. 32, **t. 3, f. 2.** Spreng. Syst. 4². 198. Lehmann, Pug. Pl. Nov. 3. 27. Don, Mill. 2. 559.

Var. **humile.** Torr. & Gray, Fl. 1. 424. Walp. Rep. 2. 48. Porter, Hayd. Rep. 1870, 475. Watson, King's Rep. 5. 85.

Sieversia humilis. R. Br. in Parry's 1st Voy. 276 & 308. Cham. & Schlecht. in Linnæa, 2. 6. Hook. Fl. Bor.-Am. 1. 176. Hook. f. Arct. Pl. 325.

G. triflorum. Torrey, Ann. Lyc. N. Y. 2. 195.

Sieversia Rossii, var. *humilis.* Ledeb. Fl. Ross. 2. 25.

G. strictum. Ait. Hort. Kew. 2. 217. See syn. in Ledeb. Fl. Ross. 2. 22; Meyer, Ind. Sem. Petrop. 11. 26; Trautv. & Meyer, Fl. Ochot. 32; Scheutz, Monog. 28. — Willd. Spec. 2. 1113. Pursh, 351. Bigel. Fl. Bost. 2 ed. 207. Torrey, Fl. U. S. 492; Fl. N. Y. 1. 202; Nicol. Rep. 149. Hook. Fl. Bor.-Am. 1. 175, excl. var. β. Don, Mill. 2. 525. Beck, Bot. 101. Fisch. & Meyer, Ind. Sem. Petrop. 3. 36 (Litt.-Ber. zu Linnæa, 12. 95). Torr. & Gray, Fl. 1. 421. Eat. & Wr. 254. Dietr. 3. 171. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 190. Gray, Pac. R. Rep. 12. 43; Manual, 152; Am. Journ. Sci. 3. 3. 306. Hook. f. Arct. Pl. 289 & 325. Pl. Bourgeau, 256. Porter, Hayd. Rep. 1871, 481; Fl. Col. 35. Coulter, same, 1872, 765.

G. Canadense. Murr. Comm. Gœtt. 5. 34, **t. 4**, not Jacq. Michx. Fl. 1. 300. Poir. Suppl. 1. 616. Seringe, DC. Prodr. 2. 550. Don, Mill. 2. 525. Fisch. & Meyer, Ind. Sem. Petrop. 3. 35 (Litt.-Ber. zu Linnæa, 12. 94). Cham. in Linnæa, 6. 589. Lindl. Fl. Med. 226.

G. ranunculoides. Seringe, DC. Prodr. 2. 551.

G. triflorum. Pursh, 736. Poir. Suppl. 5. 574. Bradbury, Cat. 336. Nutt. Genera, 1. 309. Seringe, DC. Prodr. 2. 553. Lond. Bot. Cab. **t. 1609.** Torr. & Gray, Fl. 1. 423. Torrey, Fl. N. Y. 1. 203; Bot. Wilkes, 287. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 190. Gray, Pac. R. Rep. 12. 43; Ives's Rep. 11; Proc. Acad. Philad. 1863, 61; Manual, 153. Cooper, Pac. R. Rep. 12. 59. Porter, Hayd. Rep. 1870, 475; 1871, 481; Fl. Col. 35. Scheutz, Monog. 53. Watson, King's Rep. 5. 84. Coulter, Hayd. Rep. 1872, 765. Rothr. Pl. Wheeler, 37. Brew. & Wats. Bot. Calif. 1. 176.

G. ciliatum. Pursh, 352. Poir. Suppl. 5. 574. Spreng. Syst. 2. 543. Seringe, DC. Prodr. 2. 554. Torr. & Gray, Fl. 1. 425. Eat. & Wr. 255.

Sieversia triflora. R. Br. in Parry's 1st Voy. 276. Richard. in Journ. Frankl. 12. Spreng. Syst. 2. 543. Hook. Bot. Mag. **t. 2858**; Fl. Bor.-Am. 1. 176; Lond. Journ. Bot. 6. 218. Don, Mill. 2. 528. Eat. & Wr. 426. Dietr. 3. 193. Nutt. in Journ. Acad. Philad. 7. 20. Pl. Bourgeau, 276.

G. pubescens. Hook. Fl. Bor.-Am. 1. 175.

Sieversia rosea. Graham, in Edinb. Phil. Journ. 12. 193.

Sieversia ciliata. Don, Mill. 2. 528. Dietr. 3. 193. Meyer, l. c. 11. 54.

G. Grahami. Steud. Nomenclator, 1. 682.

G. urbanum, Linn., subsp. **Oregonense.** Scheutz, Monog. 26. Gray, Am. Journ. Sci. 3. 3. 306.

G. vernum. Torr. & Gray, Fl. 1. 422. Walp. Rep. 2. 47. Dietr. 3. 191. Meyer, l. c. 11. 23. Benth. & Hook. Gen. Pl. 1. 619. Gray, Manual, 152. Scheutz, Monog. 61. Young, Fl. Texas, 254.

Stylipus vernus. Raf. Neog. 1825, 3; Med. Bot. 1. 223. Hook. Comp. Bot. Mag. 1. 24; Icon. **t. 286.** Riddell, Cat. Pl. Ohio, 5. Short, Suppl. Pl. Kentucky, 509. Eat. & Wr. 446.

G. Virginianum. Linn. Spec. 500. Hill, Veg. Syst. 12. 50, **t. 50, f. 2.** Ait. Hort. Kew. 2. 217. Willd. Spec. 2. 1113. Michx. Fl. 1. 301. Pursh, 351. Bigel. Fl. Bost. 207. Elliott, 1. 572. Tratt. Ros. Monog. 3. 118. Torrey, Fl. U. S. 493; Ann. Lyc. N. Y. 2. 195; Frem. Rep. 89; Emory's Rep. 139. Raf. Med. Bot. 1. 220, **f. 43.** Don, Mill. 2. 525. Beck, Bot. 101. Fisch. & Meyer, Ind. Sem. Petrop. 3. 33 (Litt.-Ber. zu Linnæa, 12. 93). Meyer, Ind. Sem. Petrop. 11. 24. Gray, Pl. Fendl. 40; Pac. R. Rep. 12. 43; Manual, 152; Am. Journ. Sci. 3. 3. 306. Parry, Pl. Minn. 611. Torr. & Gray, Pac. R. Rep. 2. 164. Scheutz, Monog. 21. The species has been much confused with *G. album*, q. v.

Caryophyllata Virginiana. Lam. Dict. 1. 399.

? *G. laciniatum.* Murr. Nov. Comm. Gœtt. 5. 30, **t. 2.**

G. hirsutum. Muhl. Cat. 51. Link, Enum. 2. 65.

G. heterophyllum. Desf.; DC. Prodr. 2. 550.

G. agrimonoides; album, Potentilla arguta.
Canadense; album, strictum.
Carolinianum; album.
cercocarpoides; Fallugia paradoxa.
ciliatum; triflorum.
dryadoides; Cowania Mexicana.
Grahami; triflorum.
Japonicum; macrophyllum.
G. Peckii; radiatum.
pubescens; triflorum.
radiatum; calthifolium.
ranunculoides; strictum.
rotundifolium; calthifolium.
strictum; macrophyllum.
triflorum; Rossii.
urbanum; album.
Virginianum; album, geniculatum.

GILLENIA stipulacea. Nutt. Genera, 1. 307. Barton, Veg. Mat. Med. 1. 71, **t. 6.** Elliott, 1. 562. Torrey, Fl. U. S. 484; Fl. N. Y. 1. 201. DC. Prodr. 2. 546. Raf. Med. Bot. 1. 224, **f. 44.** Don, Mill. 2. 521. Beck, Bot. 100. Spach, Hist. Veg. 1. 448. Lindl. Fl. Med. 229. Torr. & Gray, Fl. 1. 418. Eat. & Wr. 255. Dietr. 3. 128. Engelm. Pl. Upp. Miss. 190. Chapman, 122. Gray, Manual, 150.

? *Ulmaria rubra.* Hill, Hort. Kew. 214, **t. 7.**

Spiræa stipulata. Muhl.; Willd. Enum. 1. 542. Muhl. Cat. 51. Poir. Suppl. 5. 221. Cambess. Monogr. Spir. in Ann. Sci. Nat. 1. 1. 388, **t. 28.** Spreng. Syst. 2. 504.

Spiræa stipulacea. Pursh, 343.

G. trifoliata. Moench, Meth. Suppl. 286. Nutt. Genera, 1. 307. Elliott, 1. 562. Torrey, Fl. U. S. 483; Fl. N. Y. 1. 200. DC. Prodr. 2. 546. Hook. Fl. Bor.-Am. 1. 174. Don, Mill. 2. 521. Beck, Bot. 100. Spach, Hist. Veg. 1. 448. Lindl. Fl. Med. 229. Darling. Fl. Cestr. 300. Torr. & Gray, Fl. 1. 418. Eat. & Wr. 255. Dietr. 3. 128. Engelm. Pl. Upp. Miss. 190. Chapman, 121. Gray, Manual, 150. Baillon, Hist. Pl. 1. 388, **f. 442.** Buchan, Canad. Naturalist, 14. 293.

Spiræa trifoliata. Linn. Spec. 490. Ait. Hort. Kew. 2. 200. Willd. Spec. 2. 1003. Curtis, Bot. Mag. **t. 489.** Michx. Fl. 1. 294. Poir. Dict. 7. 359. Persoon, 2. 47.

Pursh, 343. Barton, Veg. Mat. Med. 1, t. 5. Bigelow, Med. Bot. 3. 11, t. 41. Cambess. l. c. 387, t. 17, f. 2 (fl. & fr.).

Ulmaria trifoliata. Hill, Hort. Kew. 214.

HETEROMELES arbutifolia. Roemer, Syn. Monog. 3. 105. Decaisne, Mem. Fam. Pom. 144, t. 9. Brew. & Wats. Bot. Calif. 1. 188.

Cratægus arbutifolia. Poir. in Nouv. Duham. 4. 131; Dict. Suppl. 1. 292. Ait. f. Hort. Kew. 3. 202. Lodd. Bot. Cab. t. 201.

Aronia arbutifolia. Nutt. Genera, 1. 306.

Photinia arbutifolia. Lindl. in Trans. Linn. Soc. 13. 103; Bot. Reg. t. 491, & under t. 1956 (Spreng. Neue Entdeck. 3. 16[illegible] Regensb. Fl. 6. 169). Spreng. Syst. 2. 508. DC. Prodr. 2. 631. Cham. & Schlecht. in Linnæa, 2. 542. Don, Mill. 2. 602. Spach, Hist. Veg. 2. 80. Hook. & Arn. Bot. Beechey, 139 & 340. Torr. & Gray, Fl. 1. 473. Dietr. 3. 162. Loud. Arb. 2. 868, f. 619. Benth. Bot. Sulph. 14; Pl. Hartw. 307. Torrey, Emory's Rep. 140; Sitgr. Rep. 159; Pac. R. Rep. 4. 85; Mex. Bound. 64; Bot. Wilkes, 291. Wood. Cl.-Book, 320. Boland. Proc. Calif. Acad. 3. 80; Cat. 11. Maximowicz, Bull. Acad. Petersb. 19. 180 (Mélang. Biolog. 9. 180). Wenzig, Linnæa, 38. 96.

Mespilus arbutifolia. Link, Enum. Hort. Berol. 2. 36.

Photinia salicifolia. Presl, Epimel. Bot. 204. Walp. Ann. 3. 858.

Heteromeles Fremontiana. Decaisne, Mem. Fam. Pom. 144.

HORKELIA Bolanderi. Gray, Proc. Am. Acad. 7. 338. Watson, King's Rep. 5. 448. Regel, Trudi Peterb. 1. 152. Brew. & Wats. Bot. Calif. 1. 182. The species of the genus are all referred to *Potentilla* by Benth. & Hook. in Gen. Pl. 1. 621, & by Baillon, Hist. Pl. 1. 369.

Var. **Parryi.** Watson, Bot. Calif. 1. 182.

H. Californica. Cham. & Schlecht. in Linnæa, 2. 26. Don, Mill. 2. 562. Hook. & Arn. Bot. Beechey, 139. Torr. & Gray, Fl. 1. 434. Walp. Rep. 2. 36. Presl, Epimel. Bot. 198. Gray, Proc. Am. Acad. 6. 529. Watson, King's Rep. 5. 447. Regel, Trudi Peterb. 1. 151. Torrey, Bot. Wilkes, 288. Brew. & Wats. Bot. Calif. 1. 181.

Sibbaldia Californica. Spreng. Syst. 4². 341. Dietr. 2. 1020.

H. grandis. Hook. & Arn. Bot. Beechey, 339.

H. capitata. Torrey, Pac. R. Rep. 4. 84.

Var. **cuneata.** Gray, Proc. Am. Acad. 6. 529.

H. cuneata. Lindl. Bot. Reg. 23, under t. 1997. Hook. & Arn. Bot. Beechey, 338. Torr. & Gray, Fl. 1. 435. Dietr. 2. 1628. Walp. Rep. 2. 36. Benth. Pl. Hartw. 309. Presl, Epimel. Bot. 198. Torrey, Mex. Bound. 64. Boland. Cat. 10.

Potentilla multijuga. Lehm. Ind. Sem. Hamb. 1849, Add. 6; Pugil. Pl. Nov. 9. 2; Rev. Potent. 29, t. 7.

Potentilla cuneata. Benth. & Hook. l. c. Baillon, l. c.

Var. **sericea.** Gray, Proc. Am. Acad. 6. 529. Brew. & Wats. Bot. Calif. 1. 181.

H. capitata. Lindl. Bot. Reg. under t. 1997. Hook. & Arn. Bot. Beechey, 338. Torr. & Gray, Fl. 1. 435. Dietr. 2. 1628. Walp. Rep. 2. 36. Gray, Proc. Am. Acad. 6. 529. Watson, King's Rep. 5. 447. Regel, Trudi Peterb. 1. 151. Brew. & Wats. Bot. Calif. 1. 181.

H. congesta. Dougl.; Hook. Bot. Mag. t. 2880; Fl. Bor.-Am. 1. 196. Don, Mill. 2. 562. Hook. & Arn. Bot. Beechey, 339. Torr. & Gray, Fl. 1. 434. Eat. & Wr. 273. Walp. Rep. 2. 36. Gray, Proc. Am. Acad. 6. 529 & 8. 381. Watson, King's Rep. 5. 448. Regel, Trudi Peterb. 1. 153. Torrey, Bot. Wilkes, 288. Brew. & Wats. Bot. Calif. 1. 181.

H. hirsuta. Lindl. Bot. Reg. under t. 1997.
Sibbaldia congesta. Dietr. 2. 1020.
Potentilla congesta. Benth. & Hook. l. c. Baillon, Hist. Pl. 1. 369, **f. 421, 422.**

H. fusca. Lindl. Bot. Reg. 23, **t. 1997.** Hook. & Arn. Bot. Beechey, 338. Torr. & Gray, Fl. 1. 435. Dietr. 2. 1028. Walp. Rep. 2. 36. Presl, Epimel. Bot. 198. Torrey, Pac. R. Rep. 7. 11. Gray, Proc. Am. Acad. 6. 529. Boland. Cat. 11. Watson, King's Rep. 5. 448. Regel, Trudi Peterb. 1. 152. Brew. & Wats. Bot. Calif. 1. 181.
H. parviflora. Nutt.; Torr. & Gray, Fl. 1. 435. Dietr. 2. 1028. Walp. Rep. 2. 36. Gray, Proc. Am. Acad. 6. 529. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 89 & 447. Regel, Trudi Peterb. 1. 151.
H. cuneata. Newberry, Pac. R. Rep. 6. 73.
H. capitata. Regel, Gart. Fl. 1872, **t. 711.**

Var. **tenella.** Watson, Bot. Calif. 1. 181.

H. purpurascens. Watson, Proc. Am. Acad. 11. 148. Brew. & Wats. Bot. Calif. 1. 182.

H. tenuiloba. Gray, Proc. Am. Acad. 6. 529. Boland. Cat. 10. Watson, King's Rep. 5. 448. Regel, Trudi Peterb. 1. 153. Brew. & Wats. Bot. Calif. 1. 182.
H. fusca, var. *tenuiloba.* Torrey, Pac. R. Rep. 4. 84.
H. congesta. Newberry, Pac. R. Rep. 6. 73.

H. tridentata. Torrey, Pac. R. Rep. 4. 84, **t. 6.** Gray, Proc. Am. Acad. 6. 528 & 530. Regel, Trudi Peterb. 1. 152. Brew. & Wats. Bot. Calif. 1. 182.
Ivesia tridentata. Gray, Proc. Am. Acad. 7. 338. Watson, King's Rep. 5. 448.
H. Tilingii. Regel, Trudi Peterb. 1. 151; Gart. Fl. 1872, **t. 711.**

IVESIA Baileyi. Watson, King's Rep. 5. 90 & 449. Brew. & Wats. Bot. Calif. 1. 184.

Var. **setosa.** Watson, King's Rep. 5. 90.

I. depauperata. Gray; Brew. & Wats. Bot. Calif. 1. 184.
Potentilla depauperata. Engelm.; Gray, Proc. Am. Acad. 7. 399.

I. Gordoni. Torr. & Gray; Newberry, Pac. R. Rep. 6. 72. Gray, Proc. Am. Acad. 7. 530. Anderson, Cat. Pl. Nev. 120. Porter, Hayd. Rep. 1870, 475; 1871, 481. Watson, King's Rep. 5. 90 & 148. Rothr. Pl. Wheeler, 37. Brew. & Wats. Bot. Calif. 1. 183.
Horkelia Gordoni. Hook. in Kew Journ. Bot. 5. 341, **t. 12.** Engelm. Pl. Upp. Miss. 190. Walp. Ann. 4. 664.
H. (?) *multifoliolata.* Torrey, Sitgr. Rep. 159 (Regensb. Flora, 38. 361; Bonplandia, 3. 95).
Potentilla Gordoni. Benth. & Hook. l. c. Baillon, l. c.

Var. **pygmæa.** Watson, Bot. Calif. 1. 183.
I. pygmæa. Gray, Proc. Am. Acad. 6. 530. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 448.

Var. **lycopodioides.** Watson, Bot. Calif. 1. 183.
I. lycopodioides. Gray, Proc. Am. Acad. 6. 530. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 448.
Potentilla lycopodioides. Baillon, Hist. Pl. 1. 371.

I. gracilis. Torr. & Gray; Newberry, Pac. R. Rep. 6. 72, **t. 11.** Brew. & Wats. Bot. Calif. 1. 184.
Potentilla Newberryi. Gray, Proc. Am. Acad. 6. 532.

I. Kingii. Watson, King's Rep. 5. 91 & 448. Brew. & Wats. Bot. Calif. 1. 184.

I. Muirii. Gray, Proc. Am. Acad. 8. 627. Brew. & Wats. Bot. Calif. 1. 183.

I. Pickeringii. Torrey, Bot. Wilkes, 288, **t. 4.** Torr. & Gray; Newberry, Pac. R. Rep. 6. 72. Gray, Proc. Am. Acad. 6. 531. Watson, King's Rep. 5. 448. Brew. & Wats. Bot. Calif. 1. 182.

Potentilla Pickeringii. Benth. & Hook. l. c.

I. santolinoides. Gray, Proc. Am. Acad. 6. 531 & 7. 330. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 448. Brew. & Wats. Bot. Calif. 1. 183.

Potentilla (?) ——. Benth. & Hook. Gen. Pl. 1. 621.

Potentilla santolinoides. Baillon, Hist. Pl. 1. 370.

I. unguiculata. Gray, Proc. Am. Acad. 7. 339. Watson, King's Rep. 5. 448. Brew. & Wats. Bot. Calif. 1. 183.

I. Webberi. Gray, Proc. Am. Acad. 11. 71. Brew. & Wats. Bot. Calif. 1. 183.

MESPILUS. See under *Cratægus.*

M. acerifolia; Cratægus cordata.
Amelanchier & arborea; Amelanchier Canadensis.
arbutifolia; Pirus arbutifolia.
axillaris; Cratægus parvifolia.
Azarolus; C. spathulata.
Calpodendron; C. tomentosa.
Canadensis; Amelanchier Canadensis, Pirus arbutifolia,
cornifolia; C. tomentosa.
cuneifolia; C. Crus-galli, tomentosa.
cuneiformis; C. Crus-galli.
elliptica; C. Crus-galli, flava.
flabellata; C. coccinea.
flexispina; C. flava, parvifolia.
flexuosa; C. parvifolia.
glandulosa; C. coccinea.
hiemalis; C. flava.
M. laciniata; C. parvifolia.
lobata; C. tomentosa.
lucida; C. Crus-galli.
monogyna; C. apiifolia.
nivea; Amelanchier Canadensis.
odorata; Cratægus tomentosa.
Oxyacantha; C. parvifolia.
Phænopyrum; C. cordata.
populifolia; C. coccinea.
pruinosa; C. tomentosa.
prunellifolia; C. Crus-galli.
pubescens; C. coccinea.
punctata & pyrifolia; C. tomentosa.
rotundifolia; C. coccinea, Crus-galli.
tiliæfolia; C. subvillosa.
tomentosa; C. parvifolia.
viridis & Wendlandii; C. coccinea.
xanthocarpa; C. parvifolia.

NEILLIA opulifolia. Benth. & Hook. Gen. Pl. 1. 612. Brew. & Wats. Bot. Calif. 1. 171.

Spiræa opulifolia. Linn. Spec. 489. Marshall, Arbust. 146. Ait. Hort. Kew. 2. 198. Schmidt, Arb. **t. 32.** Moench, Meth. 662. Willd. Arb. 374; Spec. 2. 1059; Enum. 542. Michx. Fl. 1. 293. Poir. Dict. 7. 354. Persoon, 2. 46. Pursh, 342. Elliott, 1. 560. James, Long's Exped. 2. 96 & 344. Cambess. Monog. Spir. 54, **t. 17, f. 1.** Torrey, Fl. U. S. 482; Ann. Lyc. N. Y. 2. 194; Fl. N. Y. 1. 198; Pac. R. Rep. 4. 83; Bot. Wilkes, 285. Loisel. in Nouv. Duham. 6. 61, **t. 14.** Spreng. Syst. 2. 502. Seringe, DC. Prodr. 2. 542. Hook. Fl. Bor.-Am. 1. 171; Comp. Bot. Mag. 1. 24; Lond. Journ. Bot. 6. 217. Don, Mill. 2. 517. Beck, Bot. 98. Spach, Hist. Veg. 1. 431. Darling. Fl. Cestr. 298. Hook. & Arn. Bot. Beechey, 338. Torr. & Gray, Fl. 1. 413. Eat. & Wr. 440. Dietr. 3. 124. Loud. Arb. 2. 723, **f. 427, 428.** Emerson, Trees of Mass. 426. Presl, Epimel. Bot. 195. Parry, Pl. Minn. 611. Richard. Arct. Exped. 425. Durand, Pl. Pratten. 87. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 59. Agardh, Theor. Syst. **t. 12, f. 13.** Curtis, Bot. N. Car. 104. Lesqx. Fl. Ark. 358. Chapman, 120. Bolander, Proc. Calif. Acad. 3. 79; Cat. 11. Gray, Manual, 149; Proc. Am. Acad. 8. 381. Porter, Hayd. Rep. 1870, 475; 1871, 481; Fl. Col. 33. Watson, King's Rep. 5. 80. Coulter, Hayd. Rep. 1872, 764.

Spiræa Caroliniana. Marshall, Arbust. 146.

Physocarpa opulifolia, riparia & tomentosa. Raf. New Flora, 3. 73 & 74.

Var. **ferruginea.**

Spiræa opulifolia, var. *ferruginea.* Nutt.; Torr. & Gray, Fl. 1. 414. Chapman, 120. Wood, Cl.-Book, 344.

Var. **mollis.** Brew. & Wats. Bot. Calif. 1. 171.

Spiræa capitata. Pursh, 342. Poir. Suppl. 5. 222. Cambess. Monog. Spir. 31. Spreng. Syst. 2. 502. Seringe, DC. Prodr. 2. 542. Don, Mill. 2. 518. Spach, Hist. Veg. 1. 439. Eat. & Wr. 440. Loud. Arb. 2. 723.

S. opulifolia, var. *mollis.* Hook. Fl. Bor.-Am. 1. 171. Hook. & Arn. Bot. Beechey, 338. Benth. Pl. Hartw. 309.

N. Torreyi. Watson, Proc. Am. Acad. 11. 136. Brew. & Wats. l. c.

Spiræa monogyna. Torrey, Ann. Lyc. N. Y. 2. 194. Don, l. c. Eat. & Wr. 441.

Epicostorus montanus. Raf. Atl. Journ. 1832, 144; New Flora, 3. 74.

Spiræa opulifolia, var. *pauciflora.* Hook. Fl. Bor.-Am. 1. 171. Torr. & Gray, Fl. 1. 414. Gray, Pl. Fendl. 40; Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 61. Torrey, Stansb. Rep. 387. Engelm. Pl. Upp. Miss. 190. Durand, Fl. Utah, 163. Watson, King's Rep. 5. 80. Coulter, Hayd. Rep. 1872, 764. Porter, Fl. Col. 33 (as var. *parvifolia*).

NEVIUSIA Alabamensis. Gray, Proc. Am. Acad. 4. 99. Chapman, 121. Wood, Bot. & Fl. 104. Baillon, Hist. Pl. 1. 393.

NUTTALLIA cerasiformis. Torr. & Gray in Hook. & Arn. Bot. Beechey, 338, **t. 82**; Fl. 1. 412. Walp. Rep. 5. 659. Benth. Pl. Hartw. 307. Lindl. Journ. Hort. Soc. 4. 222, **fig.** Belg. Hort. 8. 195, **t. 53.** Torrey, Pac. R. Rep. 4. 83; Mex. Bound. 63; Bot. Wilkes, 285. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 32 & 59. Boland. in Proc. Calif. Acad. 3. 79; Cat. 10. Dickson, Trans. Bot. Soc. Edinb. 1866, 186 (Bull. Bot. Soc. France, 14, Rev. Bibl. 113). Gray, Proc. Am. Acad. 8. 381. Brew. & Wats. Bot. Calif. 1. 168.

PERAPHYLLUM ramosissimum. Nutt.; Torr. & Gray, Fl. 1. 474. Dietr. 3. 158. Walp. Rep. 5. 660. Wenzig, Linnæa, 38. 115. Brandegee, Fl. S. W. Col. 236. Referred to *Amelanchier* by Benth. & Hook. in Gen. Pl. 1. 628.

PIRUS Americana. DC. Prodr. 2. 637. Watson, Dendr. Brit. **t. 54.** Spreng. Syst. 2. 511. Hook. Fl. Bor.-Am. 1. 204. Don, Mill. 2. 648. Beck, Bot. 113. Audubon, Birds, **t. 363.** Torr. & Gray, Fl. 1. 472. Eat. & Wr. 383. Torrey, Fl. N. Y. 1. 224. Dietr. 3. 155. Loud. Arb. 3. 920, **t. 184.** Emerson, Trees of Mass. 439. Nutt. Sylva, 2. 25, **t. 50.** Richard. Arct. Exped. 428. Lange, Pl. Groenl. 134. Curtis, Bot. N. Car. 70. Chapman, 129. Gray, Manual, 161. Brew. & Wats. Bot. Calif. 1. 189.

Sorbus Americana. Marsh. Arbust. 145. Willd. Enum. 520. Pursh, 341. Poir. Suppl. 5. 164. Nutt. Genera, 1. 305. Bigel. Fl. Bost. 2 ed. 194. Torrey, Fl. U. S. 477. Spach, Hist. Veg. 2. 95. Roem. Syn. Monog. 3. 138. Maximowicz, Bull. Acad. Petersb. 19. 174 (Mélang. Biol. 9. 171). Wenzig, Linnæa, 38. 71. Decaisne, Mem. Fam. Pom. in Nouv. Arch. Mus. 10. 158.

Sorbus Aucuparia. Poir. Dict. 7. 234, in part. Persoon, 2. 38 & Add. (as var. *Americana*). Bigel. Fl. Bost. 119. Decaisne, l. c., as to Greenland ?

P. Aucuparia. Meyer, Pl. Lab. 81. Schlecht. Fl. Lab. in Linnæa, 10. 99. Hook. f. Arct. Pl. 290 & 327, in part.

Sorbus humifusa. Raf. Med. Bot. 2. 265.

Var. **microcarpa.** Torr. & Gray, Fl. 1. 472.

Sorbus Aucuparia, var. *a.* Michx. Fl. 1. 290.

Sorbus microcarpa. Pursh, 341. Poir. Suppl. 5. 164. Elliott, 1. 555. Torrey, Fl. U. S. 477. Spach, Hist. Veg. 2. 95. Roem. Syn. Monog. 3. 138.

P. microcarpa. Spreng. Syst. 2. 511. DC. Prodr. 2. 636. Don, Mill. 2. 648. Beck, Bot. 113. Eat. & Wr. 383. Loud. Arb. 2. 921.

Sorbus Americana, var. *microcarpa.* Wenzig, Linnæa, 38. 71.

Sorbus riparia. Raf. New Fl. 3. 15.

P. angustifolia. Ait. Hort. Kew. 2. 176. Willd. Spec. 2. 1020. Poir. Dict. 5. 455. Persoon, 2. 40. Pursh, 341. Elliott, 1. 559. Torrey, Fl. U. S. 480. Spreng. Syst. 2. 509. DC. Prodr. 2. 635. Watson, Dendr. Brit. **t. 132.** Lindl. Bot. Reg. 14, **t. 1207.** Don, Mill. 647. Beck, Bot. 113. Hook. Comp. Bot. Mag. 1. 25. Torr. & Gray, Fl. 1. 741. Eat. & Wr. 382. Dietr. 3. 154. Loud. Arb. 2. 909, **t. 177.** Nutt. Sylva, 2. 24. Curtis, Bot. N. Car. 69. Chapman, 128. Gray, Manual, 161.

P. coronaria. Wangenh. Amer. 61, **t. 21, f. 47.** Walter, 148.

Malus angustifolia. Michx. Fl. 1. 292. Decaisne, l. c. 155.

Malus sempervirens. Desf. Arb. 2. 141. Nouv. Duham. 6, **t. 43, f. 1.** Poir. Suppl. 4. 524. Roem. Syn. Monog. 3. 191.

P. coronaria, var. *angustifolia.* Wenzig, Linnæa, 38. 41.

P. arbutifolia. Linn. f. Suppl. 256. Wangenh. Amer. 89, **t. 28, f. 64.** Ehrh. Beitr. 1. 184 & 2. 68. Willd. Spec. 2. 1012; Enum. 525. Ait. f. Hort. Kew. 3. 207. Bigel. Fl. Bost. 195. Spreng. Syst. 2. 510. DC. Prodr. 2. 637. Lindl. Trans. Hort. Soc. 7. 224 (Litt.-Ber. zu Linnæa, 1830, 106). Hook. Fl. Bor.-Am. 1. 204; Bot. Mag. **t. 3668.** Don, Mill. 2. 649. Beck, Bot. 114. Darling. Fl. Cestr. 296. Torr. & Gray, Fl. 1. 471. Eat. & Wr. 383. Torrey, Fl. N. Y. 1. 224. Dietr. [illegible] 5. Loud. Arb. 2. 925, **f. 646–648.** Emerson, Trees of Mass. 441. Richard. [illegible] Exped. 428. Curtis, Bot. N. Car. 69. Lesqx. Fl. Ark. 359. Chapman, 128. Gray, Manual, 161.

Mespilus Canadensis. Linn. Spec. 478, in part. Marshall, Arbust. 91.

Mespilus arbutifolia. Linn. Spec. 478. Walter, 148. Ait. Hort. Kew. 2. 173. Schmidt, Arb. **t. 86.** Michx. Fl. 1. 290.

Crataegus pyrifolia. Lam. Dict. 1. 83.

Aronia pyrifolia. Persoon, 2. 39. Roem. Syn. Monog. 3. 159.

Crataegus serrulata. Poir. Suppl. 1. 292.

Aronia arbutifolia. Elliott, 1. 556. Torrey, Fl. U. S. 478. Spach, Hist. Veg. 2. 89. Roem. l. c. 160. Decaisne, Mem. Pom. 138.

P. floribunda. Lindl. Bot. Reg. 12, **t. 1006**; Trans. Hort. Soc. 7. 224 (Litt.-Ber. zu Linnæa, 1830, 106). Don, Mill. 2. 649. Walp. Rep. 2. 54. Loud. Arb. 2. 927.

P. depressa. Lindl. l. c. 7. 230, and same citations.

Aronia floribunda, depressa & *densiflora.* Spach, Hist. Veg. 2. 88–90. Roem. Syn. Monog. 3. 159 & 160. Decaisne, Mem. Pom. 138.

Sorbus arbutifolia. Wenzig, Linnæa, 38. 65.

Var. **melanocarpa.** Hook. Fl. Bor.-Am. 1. 204. Darling. Fl. Cestr. 296. Torr. & Gray, Fl. 1. 471. Torrey, Fl. N. Y. 1. 224. Chapman, 129. Gray, Manual, 161. Buchan, Canad. Naturalist, 14. 293.

Crataegus arbutifolia. Lam. Dict. 1. 83.

Mespilus arbutifolia, var. *nigra.* Willd. Spec. 2. 1021.

Mespilus arbutifolia, var. *melanocarpa.* Michx. Fl. 1. 292.

Aronia arbutifolia. Persoon, 2. 39.

P. melanocarpa. Willd. Enum. 525. Pursh, 339. Spreng. Syst. 2. 509. DC. Prodr. 2. 637. Lindl. in Trans. Hort. Soc. 7. 232 (Litt.-Ber. l. c.). Don, Mill. 2. 649. Beck, Bot. 114. Eat. & Wr. 383. Loud. Arb. 2. 926, **f. 649.**

Aronia melanocarpa. Elliott, 1. 557. Nutt. Genera, 1. 306. Spach, Hist. Veg. 2. 90. Roem. Syn. Monog. 3. 161. Decaisne, Mem. Pom. 137.

Aronia arbutifolia, var. *melanocarpa.* Torrey, Fl. U. S. 479.

P. grandifolia. Lindl. Bot. Reg. 14, **t. 1154**; Trans. Hort. Soc. 7. 233 (Litt.-Ber. l. c.). Don, Mill. 2. 649. Walp. Rep. 2. 54. Loud. Arb. 2. 928.

P. pubens. Lindl. l. c. 7. 232, and same citations.

Aronia grandifolia, pubens & glabrescens. Spach, Hist. Veg. 2. 91. Roem. l. c. Decaisne, l. c.

Aronia pumila. Roem. Syn. Monog. 3. 161.

Sorbus arbutifolia, var. *melanocarpa.* Wenzig, Linnæa, 38. 67.

Var. **macrophylla.** Hook. Comp. Bot. Mag. 1. 25.

P. coronaria. Linn. Spec. 480. Marsh. Arbust. 118. Ait. Hort. Kew. 2. 176. Willd. Arb. 265; Sp. 2. 1019; Enum. 527. Persoon, 2. 40. Pursh, 340. Sims, Bot. Mag. **t. 2009.** Elliott, 1. 559. Ker, Bot. Reg. 8, **t. 651.** James, Long's Exped. 1 317. Spreng. Syst. 2. 510. DC. Prodr. 2. 635. Don, Mill. 2. 647. Beck, Bot. 113. Hook. Comp. Bot. Mag. 1. 25. Reichenb. Fl. Exot. **t. 240.** Torr. & Gray, Fl. 1. 470. Eat. & Wr. 382. Torrey, Fl. N. Y. 1. 223. Dietr. 3. 154. Loud. Arb. 2. 908, **t. 176.** Richard. Arct. Exped. 428. Parry, Pl. Minn. 612. Curtis, Bot. N. Car. 69. Chapman, 128. Gray, Manual, 161. Wenzig, Linnæa, 38. 40, excl. var. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 325.

Malus coronaria. Mill.; Moench, Meth. 682. Michx. Fl. 1. 292. Poir. Dict. 5. 562. Nouv. Duham. 6, **t. 44, f. 1.** Michx. f. Arbr. Am. 3. 65, **t. 10.** Spach, Hist. Veg. 2. 136, **t. 8.** Roem. Syn. Monog. 3. 191. Decaisne, Mem. Pom. 144.

P. rivularis. Dougl.; Hook. Fl. 1. 203, **t. 68.** Don, Mill. 2. 647. Torr. & Gray, Fl. 1. 471. Eat. & Wr. 383. Walp. Rep. 2. 53. Dietr. 3. 154. Ledeb. Fl. Ross. 2. 99. Nutt. Sylva, 2. 22, **t. 49.** Richard. Arct. Exped. 428. Torrey, Pac. R. Rep. 4. 85; Bot. Wilkes, 292. Newberry, Pac. R. Rep. 6. 73. Cooper, same, 12. 29 & 60. Regel, Ind. Sem. h. Petrop. 1858, 51. Rothr. Fl. Alask. 435 & 446. Boland. Cat. 11. Gray, Proc. Am. Acad. 8. 382. Wenzig, Linnæa, 38. 38. Brew. & Wats. Bot. Calif. 1. 188.

P. diversifolia. Bongard, Veg. Sitch. 133 (Presl, Repert. Bot. 1. 313).

P. fusca. Raf. Med. Bot. 2. 254.

P. subcordata. Ledeb. Fl. Ross. 2. 95.

Malus rivularis & diversifolia. Roem. l. c. 3. 215. Decaisne, Mem. Pom. 155.

Malus subcordata. Roem. l. c. 192.

P. sambucifolia. Cham. & Schlecht. in Linnæa, 2. 36. Bongard, Veg. Sitch. 134. Don, Mill. 2. 648. Torr. & Gray, Fl. 1. 472. Walp. Rep. 2. 53. Dietr. 3. 155. Ledeb. Fl. Ross. 2. 99. Trautv. & Meyer, Fl. Ochot. 37. Maximowicz, Prim. Fl. Amur. 103. Rothr. Fl. Alask. 446. Cooper, Am. Naturalist, 3. 406 (as *fraxinifolia* ?). Gray, Manual, 161; Proc. Am. Acad. 8. 382. Porter, Hayd. Rep. 1870, 475; Fl. Col. 38. Watson, King's Rep. 5. 92. Brew. & Wats. Bot. Calif. 1. 186.

Sorbus Aucuparia, var. *β.* Michx. Fl. 1. 290.

Sorbus Aucuparia. Schrank, Pfl. Lab. 25.

P. Americana. Richard. Frankl. Journ. 23 ? Newberry, Pac. R. Rep. 6. 73. Cooper, same, 12. 60. Torrey, Bot. Wilkes, 292.

**P. Aucuparia.* Meyer, Pl. Lab. 81. Schlecht. in Linnæa, 10. 99. Pl. Bourgeau, 256 & 263. Hook. f. Arct. Pl. 290 & 327, in part.

Sorbus sambucifolia. Roem. Syn. Monog. 3. 139. Maximowicz, in Bull. Acad. Petersb. 19. 174 (Mélang. Biol. 9. 172). Wenzig, Linnæa, 38. 73. Decaisne, Mem. Pom. 159.

Sorbus Sitchensis. Roem. l. c.

P. alnifolia; Amelanchier alnifolia.
Americana; sambucifolia.
Aucuparia; Americana, sambucifolia.
Bartramiana; Amelanchier Canadensis.
coronaria; angustifolia.
depressa; arbutifolia.
diversifolia; rivularis.
floribunda; arbutifolia.
fraxinifolia; sambucifolia.
fusca; rivularis.
P. glandulosa; Cratægus coccinea.
grandifolia & *melanocarpa;* arbutifolia.
microcarpa; Americana.
Neumanniana & *ovalis;* Amelanchier Canadensis.
pubens; arbutifolia.
sanguinea; Amelanchier alnifolia & Canadensis.
subcordata; rivularis.
Wangenheimiana; Amelanchier Canadensis.

POTENTILLA Anserina. Linn. Spec. 495. See syn. in Ledeb. Fl. Ross. 2. 44; Lehmann, Monog. 74, & Rev. Pot. 188; Trautv. & Meyer, Fl. Ochot. 33. — Michx. Fl. 1. 304. Pursh, 356. Bigel. Fl. Bost. 124. Schrank, Pfl. Lab. 26. James, Long's Exp. 2. 342. Torrey, Fl. U. S. 498; Fl. N. Y. 1. 210; Frem. Rep. 89; Pac. R. Rep. 4. 84; Bot. Wilkes, 289. Spreng. Syst. 2. 535. Seringe, DC. Prodr. 2. 582. Cham. & Schlecht. in Linnæa, 2. 24. E. Meyer, Pl. Lab. 76. Hook. Fl. Bor.-Am. 1. 189. Bongard, Veg. Sitch. 132. Beck, Bot. 106. Schlecht. Fl. Lab. in Linnæa, 10. 98. Hook. & Arn. Bot. Beechey, 123 & 338. Torr. & Gray, Fl. 1. 444. Eat. & Wr. 373. Gray, Pl. Fendl. 42; Pac. R. Rep. 12. 43; Manual, 155. Seem. Bot. Herald, 29 & 52. Engelm. Pl. Upp. Miss. 191. Newberry, Pac. R. Rep. 6. 72. Cooper, same, 12. 38 & 59. Lange, Pl. Groenl. 135. Hook. f. Arct. Pl. 290. Pl. Bourgeau, 256. A. H. Smith, Proc. Acad. Philad. 1867, 19. Rothr. Fl. Alask. 445; Pl. Wheeler, 37. Boland. Cat. 12. Porter, Hayd. Rep. 1870, 475; 1871, 482; Fl. Col. 38. Watson, King's Rep. 5. 89; Rev. Pot. in Proc. Am. Acad. 8. 562; Pl. Wheeler, 8. Coulter, Hayd. Rep. 1872, 765. Brew. & Wats. Bot. Calif. 1. 180.

Var. **grandis.** Lehm. in Hook. Fl. Bor.-Am. 1. 189; Rev. Pot. 190. Torr. & Gray, Fl. 1. 444. Ledeb. Fl. Ross. 2. 45.

Var. **Grœnlandica.** Tratt. Ros. 4. 13. Nestler, Monog. Pot. 35. Hook. in Parry's 3d Voy. Appx. 125; Fl. Bor.-Am. 1. 189. Seringe, DC. Prodr. 2. 582. Schlecht. in Linnæa, 10. 88. Torr. & Gray, Fl. 1. 444. Lehm. Rev. Pot. 190. Lange, Pl. Groenl. 135.

P. Egedii. Wormsk. Fl. Dan. 9, **t. 1578.** Lehm. Monog. Pot. 74. Seringe, DC. Prodr. 2. 582. Spreng. Syst. 2. 535. Don, Mill. 2. 569. Dietr. 3. 189.

P. anserina, var. *Egedii.* Torr. & Gray, Fl. 1. 444.

P. argentea. Linn. Spec. 497. See syn. in Lehm. Monog. Pot. 94 & Rev. Pot. 96; Seringe, DC. Prodr. 2. 576; Ledeb. Fl. Ross. 2. 47. — Pursh, 355. Bigel. Fl. Bost. 124. Torrey, Fl. U. S. 497; Fl. N. Y. 1. 209; Nicol. Rep. 149. Spreng. Syst. 2. 537. Lehm. in Hook. Fl. Bor.-Am. 1. 191. Beck, Bot. 107. Torr. & Gray, Fl. 1. 441. Eat. & Wr. 373. A. H. Smith, Proc. Acad. Philad. 1867, 19. Gray, Manual, 154. Watson, Rev. Pot. 558.

P. arguta. Pursh, 636. Poir. Suppl. 4. 538. Bradbury, Cat. 337. Richard. Frankl. Journ. Appx. 20. Lindl. Bot. Reg. 16, **t. 1379.** Hook. (& Lehm.) Fl. Bor.-Am. 1. 186, **t. 63.** Don, Mill. 2. 558. Beck, Bot. 107. Bigel. Fl. Bost. 3 ed. 219. Torr. & Gray, Fl. 1. 445. Eat. & Wr. 374. Walp. Rep. 2. 35. Dietr. Syn. 3. 186. Torrey, Fl. N. Y. 1. 209; Nicol. Rep. 149; Frem. Rep. 89. Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 190. Lehm. Rev. Pot. 50. Gray, Pac. R. Rep. 12. 43; Manual, 154. Pl. Bourgeau, 256. Porter, Hayd. Rep. 1870, 475; Fl. Col. 35. Coulter, Hayd. Rep. 1872, 765. Watson, Rev. Pot. 551.

Geum agrimonoides. Pursh, 351. Poir. Suppl. 5. 574. Torrey, Cat. Pl. N. Y. 92. Spreng. Syst. 2. 543. Seringe, DC. Prodr. 2. 554. Eat. & Wr. 254.

Bottia sylvestris. Bigelow, Fl. Bost. 2 ed. 206.

P. confertiflora. Torrey, Fl. U. S. 1. 490. Spreng. Syst. 4. 189. Lehm. Nov. Stirp. Pug. 3. 24.

P. Pennsylvanica, var. *arguta.* Torrey, Ann. Lyc. N. Y. 2. 197.

Var. **ferruginea.** Lehm. Rev. Pot. 50.

P. ferruginea. Dougl.; Paxt. Mag. 5, **t. 233.**

P. Bigelowiana. Wenderoth, Sem. h. Marb. 1841 (Litt.-Ber. zu Linnæa, 16. 112).

P. biflora. Willd.; Schlecht. in Mag. Berl. 7. 297. See syn. in Lehm. Monog. Pot., & Rev.; Ledeb. Fl. Ross. 2. 61. — Richard. in Frankl. Journ. 21. Lehm. Monog. Pot. 192, **t. 20**; Rev. Pot. 20, **t. 62.** Cham. & Schlecht. Linnæa, 2. 24. Hook. Fl. Bor.-Am. 1. 195. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 442. Eat. & Wr. 372. Dietr. 3. 180. Seem. Bot. Herald, 29. Hook. f. Journ. Linn. Soc. 1. 124; Arct. Pl. 290. Rothr. Fl. Alask. 445. Watson, Rev. Pot. 561.

P. brevifolia. Nutt.; Torr. & Gray, Fl. 1. 442. Walp. Rep. 2. 34. Dietr. 3. 183. Lehm. Rev. Pot. 46. Watson, Rev. Pot. 560.

P. Breweri. Watson, Rev. Pot. 555. Brew. & Wats. Bot. Calif. 1. 178.

Var. **expansa.** Watson, Bot. Calif. 1. 179.

P. Canadensis. Linn. Spec. 498. Walter, 150. Willd. Spec. 2. 1106. Michx. Fl. 1. 303. Poir. Dict. 5. 595. Persoon, 2. 55. Pursh, 354. Nestler, Monog. Pot. 58, **t. 10, f. 1.** Lehm. Monog. Pot. 118; Hook. Fl. Bor.-Am. 1. 192; Rev. Pot. 187. Elliott, 1. 574. Torrey, Fl. U. S. 496; Fl. N. Y. 1. 208. Spreng. Syst. 2. 538. Seringe, DC. Prodr. 2. 575. Don, Mill. 2. 552. Beck, Bot. 106. Darling. Fl. Cestr. 303. Torr. & Gray, Fl. 1. 443. Eat. & Wr. 373. Engelm. Pl. Upp. Miss. 191. Gray, Pac. R. Rep. 12. 43; Manual, 154. Chapman, 124. Pl. Bourgeau, 256. Watson, Rev. Pot. 562.

P. pumila. Poir. Dict. 5. 594. Pursh, 354. Spreng. Syst. 2. 537.

P. sarmentosa. Willd. Enum. 554. Nestler, Monog. Pot. 64. Bigelow, Fl. Bost. 2 ed. 204. Eat. & Wr. 373. Dietr. 3. 180.

Var. **simplex.** Torr. & Gray, Fl. 1. 443. Lehm. Nov. Stirp. Pug. 9. 72; Rev. Pot. 188. Gray, Manual, 154. Watson, Rev. Pot. 562.

P. simplex. Michx. Fl. 1. 303. Poir. Dict. 5. 596. Persoon, 2. 55. Pursh, 354. Bigel. Fl. Bost. 124. Nestler, Monog. Pot. 40, **t. 9.** Lehm. Monog. Pot. 118; Hook. Fl. Bor.-Am. 1. 193. Elliott, 1. 574. Torrey, Fl. U. S. 497. Spreng. Syst. 2. 538. Seringe, DC. Prodr. 2. 575. Don, Mill. 2. 552. Beck, Bot. 106. Darling. Fl. Cestr. 204. Eat. & Wr. 373.

P. Caroliniana. Poir. Dict. 5. 595. Persoon, 2. 55.

P. crinita. Gray, Pl. Fendl. 41. Walp. Ann. 2. 480. Lehm. Rev. Pot. 63, **t. 21.** Watson, Rev. Pot. 555. Brandegee, Fl. S. W. Col. 236.

P. dissecta. Pursh, 355. Spreng. Syst. 2. 536. Seringe, DC. Prodr. 2. 573. Lehm. Nov. Stirp. Pug. 3. 20; Hook. Fl. Bor.-Am. 1. 193; Rev. Pot. 28. Don, Mill. 2. 553 & 560. Nutt. in Journ. Acad. Philad. 7. 20. Torr. & Gray, Fl. 1. 446. Eat. & Wr. 373. Dietr. 3. 180 & 190. Watson, Rev. Pot. 556. Porter, Fl. Col. 37. Rothr. Pl. Wheeler, 37. Brew. & Wats. Bot. Calif. 1. 179.

P. diversifolia. Lehm. Nov. Stirp. Pug. 2. 9; Hook. Fl. Bor.-Am. 1. 190; Rev. Pot. 72, **t. 31.** Don, Mill. 2. 550. Torr. & Gray, Fl. 1. 439. Eat. & Wr. 374. Walp. Rep. 2. 33. Dietr. 3. 185. Torrey, Frem. Rep. 89. Engelm. Pl. Upp. Miss. 191. Pl. Bourgeau, 256 & 262. Gray, Am. Journ. Sci. 2. 33. 411; Proc. Am. Acad.

8. 381. Watson, King's Rep. 5. 86. Porter, Hayd. Rep. 1871, 482. Coulter, same, 1872, 765.

P. Drummondii. Lehm. Nov. Stirp. Pug. 2. 9; Hook. Fl. Bor.-Am. 1. 189, **t. 65** Rev. Pot. 66. Don, Mill. 2. 558. Torr. & Gray, Fl. 1. 439. Eat. & Wr. 374. Walp. Rep. 2. 32. Dietr. 3. 178. Pl. Bourgeau, 256. Gray, Proc. Acad. Philad. 1863, 61.

P. rubricaulis. Lehm. Nov. Stirp. Pug. 2. 11; Hook. Fl. Bor.-Am. 1. 191; Rev. Pot. 68, **t. 30.** Don, Mill. 2. 556. Torr. & Gray, Fl. 1. 438. Eat. & Wr. 374. Walp. Rep. 2. 32. Dietr. 3. 185.

Var. **glaucophylla.** Lehm. Rev. Pot. 73. Watson, King's Rep. 5. 86, in part; Rev. Pot. 556. Porter, Fl. Col. 37.

P. glaucophylla. Lehm. in Del. Sem. h. Hamb. 1836, 7 (Litt.-Ber. zu Linnæa, 1838, 83). Walp. Rep. 2. 33.

Var. **multisecta.** Watson, King's Rep. 5. 86; Rev. Pot. 557. Coulter, Hayd. Rep. 1872, 765.

Var. (?) **decurrens.** Watson, Rev. Pot. 557.

P. effusa. Dougl.; Lehm. Nov. Stirp. Pug. 2. 8; Hook. Fl. Bor.-Am. 1. 187; Rev. Pot. 64, **t. 22.** Don, Mill. 2. 557. Torr. & Gray, Fl. 1. 437. Eat. & Wr. 374. Walp. Rep. 2. 32. Dietr. 3. 186. Hook. in Lond. Journ. Bot. 6. 219. Engelm, Pl. Upp. Miss. 191. Pl. Bourgeau, 256. Watson, l. c. 555. Porter, Fl. Col. 36.

Var. **gossypina.** Torr. & Gray, Fl. 1. 437. Lehm. Rev. Pot. 64.

P. gossypina. Nutt.; Hook. in Lond. Journ. Bot. 6. 219.

P. emarginata. Pursh, 353. Lehm. Monog. Pot. 174; Hook. Fl. Bor.-Am. 1. 194; Rev. Pot. 161. Spreng. Syst. 2. 540. E. Meyer, Fl. Lab. 74. Don, Mill. 2. 551. Torr. & Gray, Fl. 1. 446. Eat. & Wr. 372. Hornem. Fl. Dan. 13, **t. 2291.** Dietr. 3. 179. Seem. Bot. Herald, 29, 51 & 56. Lange, Pl. Groenl. 135. Rothr. Fl. Alask. 445. Watson, Rev. Pot. 559.

P. nana. Willd.; Schlecht. in Mag. Berl. 7. 296. Lehm. Monog. Pot. 181, **t. 17** (Spreng. Neue Entdeck. 2. 298); Hook. Fl. Bor.-Am. 1. 194. Spreng. Syst. 2. 541. Seringe, DC. Prodr. 2. 573. Don, Mill. 2. 550. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 441. Eat. & Wr. 372. Dietr. 3. 179. Ledeb. Fl. Ross. 2. 56. Seller, Ann. & Mag. Nat. Hist. 1. 16. 170. Seem. Bot. Herald, 29 & 55. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 190. Hook. f. in Journ. Linn. Soc. 1. 121. Rothr. Fl. Alask. 445.

P. verna. Hook. in Scoresby's Greenland, 431.

P. Grœnlandica. R. Brown, in Ross's Voy. 142.

P. frigida ? Greville, Mem. Soc. Wern. 3. 430. Durand, Kane's Exped. 2. 454.

P. nivea, var. *concolor.* R. Br. in Parry's 1st Voy. 277. Hook. in Parry's 2d Voy. 395. Torr. & Gray, Fl. 1. 441. Durand, Pl. Kane. l. c. 190.

P. Fragaria, var. *emarginata.* Seringe, DC. Prodr. 2. 586.

P. nivea, var. *arctica.* Lehm. Rev. Pot. 167, in part.

P. nivea, var. *Vahliana.* Durand, Kane's Exped. 2. 453.

P. nivea, var. *hirsuta.* Durand, Pl. Kane. l. c. 190; Pl. Hayes, Proc. Acad. Philad. 1863, 94.

P. fragiformis. Willd.; Schlecht. in Mag. Berl. 7. 294. See syn. in Ledeb. Fl. Ross. 2. 59; Trautv. & Meyer, Fl. Ochot. 33; Regel & Tiling, Fl. Ajan. 85. — Lehm. Monog. Pot. 163, **t. 15** (Spreng. Neue Entdeck. 2. 298); Hook. Fl. Bor.-Am. 1. 194; Rev. Pot. 155. Spreng. Syst. 2. 540 Seringe, DC. Prodr. 2. 586. Don, Mill. 2. 550. Eat. & Wr. 372. Dietr. 3. 178. Hook. f. Arct. Pl. 290. Watson, Rev. Pot. 559. Referred with *P. gelida* to *P. grandiflora*, Linn., by Maximowicz, Bull. Acad. Petersb. 19. 167 (Mélange Biol. 9. 161).

Var. **villosa.** Regel & Tiling, l. c. Watson, Rev. Pot. 559.

P. villosa. Pallas; Pursh, 353. Lehm. Monog. Pot. 166, t. **16**; Hook. Fl. Bor.-Am. 1. 194; Rev. Pot. 171. Spreng. Syst. 2. 540. Seringe, DC. Prodr. 2. 573. Cham. & Schlecht. in Linnæa, 2. 22. Bongard, Veg. Sitch. 132. Don, Mill. 2. 550. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 442. Eat. & Wr. 372. Dietr. Syn. 3. 178. Ledeb. Fl. Ross. 2. 58. Presl, Epimel. Bot. 198. Seem. Bot. Herald, 29. Hook. f. Arct. Pl. 290. Rothr. Fl Alask. 445.

P. lucida. Willd.; Schlecht. in Mag. Berl. 7. 296.

P. frigida. Villars, Fl. Delph. 3. 563. See syn. in Lehm. Rev. Pot. 158. — Hook. f. Arct. Pl. 290 & 326. Gray, Manual, 154. Watson, Rev. Pot. 560.

P. minima, Hall. f., var. *Robbinsiana.* Torr. & Gray, Fl. 1. 441. Lehm. Rev. Pot. 159.

P. minima. Gray, Manual, 1 ed. 122. Wood, Cl.-Book, 342; Bot. & Fl. 107.

P. fruticosa. Linn. Sp. 495. See syn. in Ledeb. Fl. Ross. 2. 61; Nestler, Monog. Pot. 67; Lehm. Rev. Pot. 16. — Michx. Fl. 1. 304. Pursh, 355. James, Cat. 182; Long's Exp. 2. 215. Torrey, Fl. U. S. 497; Ann. Lyc. N. Y. 2. 197; Fl. N. Y. 1. 210; Frem. Rep. 89; Bot. Wilkes, 289. Spreng. Syst. 2. 533. Hook. Fl. Bor.-Am. 1. 186. Beck, Bot. 107. Nutt. in Journ. Acad. Philad. 7. 20. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 445. Eat. & Wr. 373. Seem. Bot. Herald, 29 & 51. Richard. Arct. Exp. 427. Engelm. Pl. Upp. Miss. 191. Hook. f. Journ. Linn. Soc. 1. 124; Arct. Pl. 290. Pl. Bourgeau, 256 & 262. Regel, Gart. Fl. 9, t. **278**. Gray, Proc. Acad. Philad. 1863, 61; Manual, 155. Rothr. Fl. Alask. 445; Pl. Wheeler, 37. Porter, Hayd. Rep. 1870, 475; 1871, 482; Fl. Col. 38. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 89; Rev. Pot. 561. Coulter, Hayd. Rep. 1872, 765. Brew. & Wats. Bot. Calif. 1. 180.

P. fruticosa, var. *America.a.* Marshall, Arbust. 109.

P. floribunda. Pursh, 355. Bigel. Fl. Bost. 2 ed. 203. Don, Mill. 2. 561.

Var. **parvifolia.** Watson, Rev. Pot. 561; Pl. Wheeler, 8 (as var. *alpina*).

P. gelida. C. A. Meyer, Ind. Pl. Cauc. 167. See syn. in Ledeb. Fl. Ross. 2. 59; Lehm. Rev. Pot. 154; Walp. Rep. 2. 26. — Watson, Rev. Pot. 559. Brew. & Wats. Bot. Calif. 1. 180. Referred to *P. grandiflora,* Linn., by Maximowicz in Bull. Acad. Petersb. 19. 167, with *P. fragiformis.*

P. flabellifolia. Hook.; Torr. & Gray, Fl. 1. 442. Walp. Rep. 2. 34. Dietr. 3. 183. Lehm. Rev. Pot. 153, t. **51**. Newberry, Pac. R. Rep. 6. 72.

P. glandulosa. Lindl. Bot. Reg. 19, t. **1583** (Litt.-Ber. zu Linnæa, 1835, 13). Hook. & Arn. Bot. Beechey, 338. Torr. & Gray, Fl. 1. 446. Walp. Rep. 2. 35. Dietr. 3. 187. Engelm. Pl. Upp. Miss. 191. Lehm. Rev. Pot. 48. Torrey, Pac. R. Rep. 4. 84; Mex. Bound. 64. Newberry, Pac. R. Rep. 6. 72. Boland. Cat. 12. Watson, King's Rep. 5. 89; Rev. Pot. 552; Pl. Wheeler, 8. Porter, Hayd. Rep. 1871, 482; Fl. Col. 36. Gray, Proc. Am. Acad. 8. 381. Coulter, Hayd. Rep. 1872, 765. Rothr. Pl. Wheeler, 37. Brew. & Wats. Bot. Calif. 1. 178.

P. arguta. Lehm. in Hook. Fl. Bor.-Am. 1. 186, in part. Nutt. in Journ. Acad. Philad. 7. 21.

P. fissa. Nutt.; Torr. & Gray, Fl. 1. 446. Walp. Rep. 2. 35. Dietr. 3. 187. Hook. in Lond. Journ. Bot. 6. 220. Gray, Pl. Fendl. 41; Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 61. Anderson, Cat. Pl. Nev. 120. Porter, Hayd. Rep. 1871, 482.

P. Wrangeliana. Fisch. & Meyer, Ind. Sem. Petrop. 1840, 54 (Litt.-Ber. zu Linnæa, 1840, 118). Walp. Rep. 2. 35. Lehm. Rev. Pot. 49, t. **19**.

P. rupestris. Presl, Epimel. Bot. 198.

? *P. rivalis.* Torrey, Pac. R. Rep. 4. 84.

Var. **incisa.** Lindl. Bot. Reg. 13, t. **1973.**

Var. **Nevadensis.** Watson, Bot. Calif. 1. 176.

P. glandulosa. Watson, Rev. Pot. 552, in part.

P. gracilis. Dougl.; Hook. Bot. Mag. t. **2984**; Fl. Bor.-Am. 1. 192. Don, Mill. 2. 554. Torr. & Gray, Fl. 1. 440. Eat. & Wr. 373. Walp. Rep. 2. 33. Dietr. 3. 182. Torrey, Frem. Rep. 89. Lehm. Rev. Pot. 107. Cooper, Pac. R. Rep. 12. 52. Watson, King's Rep. 5. 88; Rev. Pot. 557; Pl. Wheeler, 8. Porter, Hayd. Rep. 1871, 482; Fl. Col. 37. Gray, Proc. Am. Acad. 8. 381. Coulter, Hayd. Rep. 1872, 765. Rothr. Pl. Wheeler, 37. Brew. & Wats. Bot. Calif. 1. 179.

P. Blaschkeana. Turcz.; Lehm. in Otto, Gartenz. 9. 506; Ind. Sem. h. Hamb. 1853, Add. 9.; Rev. Pot. 107, t. **64.**

P. nivea, var. Pl. Bourgeau, 256.

P. fastigiata ? Gray, Proc. Acad. Philad. 1863, 61.

Var. **flabelliformis.** Torr. & Gray, Fl. 1. 440. Newberry, Pac. R. Rep. 6. 72. Cooper, same, 12. 59. Durand, Fl. Utah, 163. Watson, King's Rep. 5. 88; Rev. Pot. 557. Torrey, Bot. Wilkes, 289. Brew. & Wats. Bot. Calif. 1. 179.

P. flabelliformis. Lehm.; Nov. Stirp. Pug. 2. 12; Hook. Fl. Bor.-Am. 1. 192, t. **66**; Monog. Pot. Suppl. 13, t. **6.** Don, Mill. 2. 554. Eat. & Wr. 373. Hook. in Lond. Journ. Bot. 6. 220. Pl. Bourgeau, 256. Porter, Hayd. Rep. 1871, 482. Coulter, same, 1872, 765.

Var. **fastigiata.** Watson, Rev. Pot. 557. Brew. & Wats. Bot. Calif. 1. 179.

P. fastigiata. Nutt.; Torr. & Gray, Fl. 1. 440. Walp. Rep. 2. 33. Dietr. 3. 182. Gray, Pl. Fendl. 42. Porter, Hayd. Rep. 1870, 475.

P. olopetala. Lehm. Rev. Pot. 78, in part.

P. concinna ? Gray, Am. Journ. Sci. 2. 33. 411.

Var. **rigida.** Watson, Rev. Pot. 557; Pl. Wheeler, 8. Porter, Fl. Col. 37. Brew. & Wats. Bot. Calif. 1. 179.

P. recta ? Nutt. Genera, 1. 310. Eat. & Wr. 373. Wood, Cl.-Book, 343.

P. chrysantha. Lehm. in Hook. Fl. 1. 193. Don, l. c. Eat. & Wr. 373.

P. rigida. Nutt. in Journ. Acad. Philad. 7. 20. Torr. & Gray, Fl. 1. 440. Walp. Rep. 2. 33. Engelm. Pl. Upp. Miss. 191. Newberry, Pac. R. Rep. 6. 72. Anderson, Cat. Pl. Nev. 120.

P. Nuttallii. Lehm. Ind. Sem. h. Hamb. 1852, Add. 12 (Ann. Sci. Nat. 3. 19. 364); Otto, Gartenz. 8. 373; Rev. Pot. 89, t. **33.** Watson, King's Rep. 5. 88. Porter, Hayd. Rep. 1871, 482.

? *P. digitato-flabellata.* Braun & Bouché, Ind. Sem. h. Berl. 1851. Walp. Ann. 7. 806. Watson, Rev. Pot. 563.

P. Grayi. Watson, Rev. Pot. 560. Porter, Fl. Col. 37. Brew. & Wats. Bot. Calif. 1. 179.

P. Hippiana. Lehm. Nov. Stirp. Pug. 2. 7; Hook. Fl. Bor.-Am. 1. 188, t. **64**; Rev. Pot. 62. Don, Mill. 2. 558. Porter, Hayd. Rep. 1870, 475; Fl. Col. 36. Watson, Rev. Pot. 555. Rothr. Pl. Wheeler, 37.

P. leucophylla. Torrey, Ann. Lyc. N. Y. 2. 197. Eat. & Wr. 373.

P. Pennsylvanica, var. *Hippiana.* Torr. & Gray, Fl. 1. 438. Torrey, Pac. R. Rep. 4. 84. Gray, Proc. Acad. Philad. 1863, 61.

P. diffusa. Torrey, Sitgr. Rep. 159.

Var. **pulcherrima.** Watson, Rev. Pot. 555.

P. pulcherrima. Lehm. Nov. Stirp. Pug. 2. 10; Hook. Fl. Bor.-Am. 1. 190; Rev. Pot. 69, t. **28.** Don, Mill. 2. 556. Eat. & Wr. 374. Watson, King's Rep. 5. 87. Porter, Hayd. Rep. 1871, 482. Coulter, same, 765.

P. Pennsylvanica, var. *pulcherrima*. Torr. & Gray, Fl. 1. 438.

P. diffusa. Gray, Pl. Fendl. 42. Torrey, Pac. R. Rep. 4. 84.

P. Hippiana, var. *diffusa*. Lehm. Ind. Sem. h. Hamb. 1849, Add. 8 (Ann. Sci. Nat. 3. 12. 347); Rev. Pot. 62. Walp. Ann. 2. 480.

P. rubricaulis. Pl. Bourgeau, 256.

P. Hookeriana. Lehm. Ind. Sem. h. Hamb. 1849, Add. 10 (Ann. Sci. Nat. 3. 12. 353); Nov. Stirp. Pug. 9. 18; Rev. Pot. 163, **t. 55**. Walp. Ann. 2. 509. Watson, Rev. Pot. 554.

P. humifusa. Nutt. Genera, 1. 310. James, Cat. 182. Torrey, Ann. Lyc. N. Y. 2. 197. Seringe, DC. Prodr. 2. 574. Eat. & Wr. 374. Watson, Rev. Pot. 558. Porter, Fl. Col. 37. Rothr. Pl. Wheeler, 37.

P. concinna. Richard. Frankl. Journ. 20. Lehm. Monog. Pot. Suppl. 16, **t. 7**; Nov. Stirp. Pug. 2. 13; Hook. Fl. Bor.-Am. 1. 193, **t. 67**; Rev. Pot. 112. Don, Mill. 2. 554. Torr. & Gray, Fl. 1. 443. Eat. & Wr. 373. Walp. Rep. 2. 34. Dietr. 3. 183. Gray, Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 61. Pl. Bourgeau, 256.

P. canescens. Spreng. Syst. 2. 537, in part.

P. pulchella. Spreng. Syst. 4². 199.

Tormentilla humifusa. Don, Mill. 2. 562.

P. concinna, var. *humifusa*. Lehm. Rev. Pot. 112.

P. maculata. Pourret, Act. Toloss. 3. 316. See syn. in Lehm. Rev. Pot. 119; Hook. f. Arct. Pl. 290 & 326 (under *P. verna*). — E. Meyer, Pl. Lab. 75. Lange, Pl. Groenl. 135. Watson, Rev. Pot. 559.

P. Salisburgensis. Haenke; Jacq. Coll. 2. 68; Icon. Rar. 3, **t. 490**. Torr. & Gray, Fl. 1. 440.

P. opaca. Pursh, 355, not Linn. Meyer, Pl. Lab. 75. Lehm. in Hook. Fl. 1. 191. Schlecht. in Linnæa, 10. 95. Torr. & Gray, Fl. 1. 191. Eat. & Wr. 373.

P. aurea. Oeder, Fl. Dan. **t. 114**, not Linn. Schrank, Pfl. Lab. 27.

P. aurea, var. *β*. Schrank, l. c. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 191 (Kane's Exped. 2. 455).

P. crocea, Haller. Hook. f. in Journ. Linn. Soc. 1. 116.

P. nemoralis. Nestler, Monog. 65. See syn. in Ledeb. Fl. Ross. 2. 51; Lehm. Rev. Pot. 179 (under *P. procumbens*). — Torr. & Gray, Fl. 1. 444. Watson, Rev. Pot. 563. Perhaps not American.

P. nivea. Linn. Spec. 499. See syn. in Ledeb. Fl. Ross. 2. 57; Lehm. Rev. Pot. 166; Hook. f. Arct. Pl. 290 & 325. — Vahl, Fl. Dan. **t. 1035**. Pursh, 353. Schrank, Pfl. Lab. 27. Lehm. Monog. Pot. 73; Hook. Fl. Bor.-Am. 1. 95. Richard. Frankl. Journ. 20. Hook. in Trans. Linn. Soc. 14. 372. Seringe, DC. Prodr. 2. 572. Cham. & Schlecht. in Linnæa, 2. 21. Meyer, Fl. Lab. 74. Torr. & Gray, Fl. 1. 441. Eat. & Wr. 372. Seem. Bot. Herald, 52. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 190. Hook. f. in Journ. Linn. Soc. 1. 116 & 121. Dickie, same, 3. 111 & 11. 33. Lange, Pl. Groenl. 135. Gray, Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 61. Rothr. Fl. Alask. 445; Pl. Wheeler, 37. Porter, Hayd. Rep. 1870, 475; Fl. Col. 37. Watson, King's Rep. 5. 87; Rev. Pot. 558.

Var. **Vahliana.** Seem. Bot. Herald, 29.

P. hirsuta. Vahl; Hornem. in Fl. Œcon. 2 ed. 500; Fl. Dan. **t. 1390**. Seringe, DC. Prodr. 2. 573.

P. Vahliana. Lehm. Monog. Pot. 172; Hook. Fl. Bor.-Am. 1. 194; Rev. Pot. 170, with syn. Spreng. Syst. 2. 541. Eat. & Wr. 372. Seem. Bot. Herald, 51. Lange, Pl. Groenl. 135.

P. Jamesoniana. Greville, Mem. Soc. Wern. 3. 417, **t. 20.** Seringe, l. c. 2. 586.
P. nivea, var. γ. Torr. & Gray, Fl. 1. 441.

Var. **macrophylla.** Lehm. Nov. Stirp. Pug. 9. 57. Seringe, DC. Prodr. 2. 571, excl. syn. Hook. Bot. Mag. **t. 2982.**

P. nivea. R. Brown, Parry's 1st Voy. 277 (Regensb. Flora, 7², Beil. 88). Lodd. Bot. Cab. **t. 460.**

Var. **prostrata.** Lehm. Nov. Stirp. Pug. 9. 69; Monog. Pot. 184; Rev. Pot. 169. Seringe, DC. Prodr. 2. 572.

P. prostrata. Rotboell, Skrift. 10. 453.

Var. **pentaphylla.** Lehm. Nov. Stirp. Pug. 9. 69; Hook. Fl. Bor.-Am. 1. 195; Rev. Pot. 169.

Var. **dissecta.** Watson, Rev. Pot. 559.

P. Norvegica. Linn. Spec. 449. See syn. in Ledeb. Fl. Ross. 2. 36; Lehm. Rev. Pot. 198.—Oeder, Fl. Dan. **t. 171.** Michx. Fl. 1. 302. Persoon, 2. 56. Ait. f. Hort. Kew. 3. 279. Pursh, 355. Bigel. Fl. Bost. 125. Nestler, Monog. 66. Elliott, 1. 573. Lehm. Monog. 153; Hook. Fl. Bor.-Am. 1. 193. Torrey, Fl. U. S. 496; Fl. N. Y. 1. 207. Cham. & Schlecht. in Linnæa, 2. 26. Bongard, Veg. Sitch. 132. Schlecht. in Linnæa, 10. 98. Beck, Bot. 106. Darling. Fl. Cestr. 303. Torr. & Gray, Fl. 1. 436. Eat. & Wr. 372. Hook. in Lond. Journ. Bot. 6. 219. Gray, Pl. Fendl. 42; Pac. R. Rep. 12. 43; Manual, 154. Seem. Bot. Herald, 51. Engelm. Pl. Upp. Miss. 191. Cooper, Pac. R. Rep. 12. 59. Chapman, 124. Pl. Bourgeau, 256. Porter, Hayd. Rep. 1870, 475; 1871, 481; Fl. Col. 36. Watson, King's Rep. 5. 85; Rev. Pot. 552. Coulter, Hayd. Rep. 1872, 765.

P. Labradorica. Lehm. Ind. Sem. h. Hamb. 1849, Add. 12 (Ann. Sci. Nat. 3. 12. 355); Nov. Stirp. Pug. 9. 21; Rev. Pot. 201. Walp. Ann. 2. 516.

Var. **hirsuta.** Torr. & Gray, Fl. 1. 436. Lehm. Nov. Stirp. Pug. 9. 75; Rev. Pot. 199.

P. Monspeliensis. Linn. Spec. 499. Willd. Spec. 2. 1109. Persoon, 2. 56.

P. hirsuta. Michx. Fl. 1. 302. Poir. Dict. 5. 596. Persoon, 2. 55. Pursh, 353. Nestler, Monog. Pot. 67. Lehm. Monog. Pot. 155, **t. 9, f. 1**; Hook. Fl. Bor.-Am. 1. 193. Torrey, Fl. U. S. 495. Spreng. Syst. 2. 540. Don, Mill. 2. 551. Beck, Bot. 106. Eat. & Wr. 372.

P. Morisoni. DC. Cat. h. Monsp. 135. Seringe, DC. Prodr. 2. 573.

P. palustris. Scop. Fl. Carn. 2 ed. 1. 359. See syn. in Lehm. Rev. Pot. 73; Ledeb. Fl. Ross. 2. 62, and Trautv. & Meyer, Fl. Ochot. 34 (under *Comarum*).—Torrey, Fl. U. S. 498; Bot. Wilkes, 290. Spreng. Syst. 2. 536. Seringe, DC. Prodr. 2. 583. Hook. Fl. Bor.-Am. 1. 187. Meyer, Pl. Lab. 76. Rothr. Fl. Alask. 445. Gray, Manual, 155. Watson, Rev. Pot. 560. Brew. & Wats. Bot. Calif. 1. 180.

Comarum palustre. Linn. Spec. 502. Mucll. Fl. Dan. **t. 636.** Michx. Fl. 1. 302. Poir. Suppl. 2. 316. Pursh, 156. Bigel. Fl. Bost. 123. Nutt. Genera, 1. 311. Schrank, Pfl. Lab. 28. Richard. Frankl. Journ. 12. Don, Mill. 2. 562. Schlecht. in Linnæa, 10. 98. Torr. & Gray, Fl. 1. 447. Eat. & Wr. 204. Torrey, Fl. N. Y. 1. 211. Gray, Manual, 1 ed. 123. Seem. Bot. Herald, 29. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 59. Lange, Pl. Groenl. 134. Hook. f. Arct. Pl. 290. Irmisch, Bot. Zeit. 19. 115. Pl. Bourgeau, 256.

P. Comarum. Nestler, Monog. Pot. 36. Seringe, DC. Prodr. 2. 583. Cham. & Schlecht. in Linnæa, 2. 25. Bongard, Veg. Sitch. 132. Beck, Bot. 108.

Comarum digitatum & *angustifolium.* Raf. Fl. Tellur. 2. 55 & 56.

P. Pennsylvanica. Linn. Mant. 76. See syn. in Ledeb. Fl. Ross. 2. 40; Lehm. Rev. Pot. 57. — Ait. Hort. Kew. 2. 214. Willd. Spec. 1099. Michx. Fl. 1. 304. Poir. Dict. 5. 588. Persoon, 2. 54. Pursh, 356. Nestler, Monog. Pot. 36. Lehm. Monog. Pot. 55; Hook. Fl. Bor.-Am. 1. 187. Torrey, Am. Journ. Sci. 1. 4. 64; Fl. U. S. 499. Seringe, DC. Prodr. 2. 581. Spreng. Syst. 2. 533. Beck, Bot. 107. Torr. & Gray, Fl. 1. 438, excl. vars. δ & ε. Eat. & Wr. 373. Walp. Rep. 2. 32. Gray, Pl. Fendl. 42; Pac. R. Rep. 12. 43; Manual, 154. Parry, Pl. Minn. 612. Pl. Bourgeau, 256. Rothr. Fl. Alask. 445; Pl. Wheeler, 37. Regel & Herder, Bull. Soc. Mosc. 1. 474. Porter, Hayd. Rep. 1871, 481. Watson, Rev. Pot. 553; Pl. Wheeler, 8. Referred to *P. sericea* by Hook. f. in Arct. Pl. 290 & 325.

P. Missourica. Schrad. Ind. Sem. h. Gœtt. (Litt.-Ber. zu Linnæa, 8. 26). Lindl. Bot. Reg. 17, **t. 1412.** Don, Mill. 2. 557.

Var. **strigosa.** Pursh, 356. Lehm. ll. cc. Torr. & Gray, Fl. 1. 438. Engelm. Pl. Upp. Miss. 191. Gray, Am. Journ. Sci. 2. 33. 411; Proc. Acad. Philad. 1863, 61. Porter, Hayd. Rep. 1871, 481; Fl. Col. 36. Watson, Rev. Pot. 554.

Var. **glabrata.** Watson, l. c.

P. sericea, var. *glabrata.* Lehm. in Hook. Fl. Bor.-Am. 1. 189; Rev. Pot. 34. Don, Mill. 2. 560. Torr. & Gray, Fl. 1. 437. Torrey, Frem. Rep. 89. Seem. Bot. Herald, 29.

P. Pennsylvanica. Hook. & Arn. Bot. Beechey, 123.

P. Pennsylvanica, var. *strigosa.* Watson, King's Rep. 5. 86.

Var. **arachnoidea.** Lehm. Nov. Stirp. Pug. 9. 41; Rev. Pot. 59.

P. Pennsylvanica, var. *conferta.* Gray, Pl. Fendl. 42.

Var. **bipinnatifida.** Torr. & Gray, Fl. 1. 438. Torrey, Nicol. Rep. 149. Hook. in Lond. Journ. Bot. 6. 220. Lehm. Rev. Pot. 60.

P. arguta. Lehm. Monog. Pot. 62, not Pursh. Cham. & Schlecht. in Linnæa, 2. 26. Spreng. Syst. 2. 534.

P. Pennsylvanica, var. *arguta.* Seringe, DC. Prodr. 2. 581.

P. bipinnatifida. Dougl.; Hook. Fl. Bor.-Am. 1. 188. Don, Mill. 2. 558. Eat. & Wr. 374.

P. Plattensis. Nutt.; Torr. & Gray, Fl. 1. 439. Walp. Rep. 2. 32. Dietr. 3. 187. Lehm. Rev. Pot. 28, **t. 6.** Gray, Proc. Acad. Philad. 1863, 61. Watson, Rev. Pot. 556. Porter, Fl. Col. 36. Rothr. Pl. Wheeler, 37. Brew. & Wats. Bot. Calif. 1. 179.

P. sericea, var. β. Pl. Bourgeau, 256.

? *P. diversifolia*, var. *pinnatisecta.* Watson, King's Rep. 5. 87.

P. pulchella. R. Brown, Ross's Voy. 142; Parry's 1st Voy. 277 (Regensb. Flora, 7², Beil. 87). Hook. in Parry's 2d Voy. 395. Lehm. Monog. Pot. Suppl. 14, **t. 7**; Nov. Stirp. Pug. 3. 25; Hook. Fl. Bor.-Am. 1. 191; Rev. Pot. 36. Spreng. Syst. 4². 198. Seringe, DC. Prodr. 2. 582. Hornem. Fl. Dan. 13, **t. 2234.** Don, Mill. 2. 586. Torr. & Gray, Fl. 1. 439. Eat. & Wr. 374. Walp. Rep. 2. 33. Dietr. 3. 185. Seem. Bot. Herald, 29. Lange, Pl. Groenl. 134. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 190 (Kane's Exped. 2. 453). Watson, Rev. Pot. 554.

P. sericea. Greville, Mem. Soc. Wern. 3. 430. Eat. & Wr. 374.

P. nivea, var. *pulchella.* Durand, Pl. Hayes, Proc. Acad. Philad. 1863, 94.

P. rivalis. Nutt.; Torr. & Gray, Fl. 1. 437. Walp. Rep. 2. 31; Ann. 2. 515. Dietr. 3. 178. Lehm. Ind. Sem. h. Hamb. 1851, Add. 10 (Linnæa, 25. 313); Otto, Gartenz. 7. 350; Rev. Pot. 196, **t. 61.** Gray, Ives's Rep. 11. Boland. Cat. 12. Anderson, Cat. Pl. Nev. 120. Watson, Rev. Pot. 552. Porter, Fl. Col. 16. Rothr. Pl. Wheeler, 37. Brew. & Wats. Bot. Calif. 1. 178.

Var. **millegrana.** Watson, Rev. Pot. 553. Torrey, Bot. Wilkes, 289. Brew. & Wats. Bot. Calif. 178.

P. millegrana. Engelm.; Lehm. Ind. Sem. h. Hamb. 1849, Add. 11 (Ann. Sci. Nat. 3. 12. 354); Nov. Stirp. Pug. 9. 22; Rev. Pot. 202. Walp. Ann. 2. 517. Watson, King's Rep. 5. 85. Porter, Hayd. Rep. 1871, 481; Coulter, same, 1872, 765.

Var. **pentandra.** Watson, Rev. Pot. 553.

P. pentandra. Engelm.; Torr. & Gray, Fl. 1. 447. Walp. Rep. 2. 35. Dietr. 3. 184. Lehm. Nov. Stirp. Pug. 9. 75; Rev. Pot. 197, **t. 62.**

P. supina. Linn. Spec. 497. See syn. in Ledeb. Fl. Ross. 2. 35; Lehm. Rev. Pot. 193. — Michx. Fl. 1. 304. Pursh, 356. Torrey, Fl. U. S. 498; Ann. Lyc. N. Y. 2. 197. Spreng. Syst. 2. 535. Seringe, DC. Prodr. 2. 580. Beck, Am. Journ. Sci. 1. 14. 114; Bot. 107. Hook. Fl. Bor.-Am. 1. 187; Comp. Bot. Mag. 1. 25. Eat. & Wr. 373. Nees, Pl. Neuwied, 8. Maximowicz, Fl. Amur. 97. Pl. Bourgeau, 256. Watson, Rev. Pot. 553.

P. paradoxa. Nutt.; Torr. & Gray, Fl. 1. 437. Walp. Rep. 2. 32. Torrey, Nicol. Rep. 149; Mex. Bound. 64. Gray, Pl. Wright. 1. 68 & 2. 55; Pac. R. Rep. 12. 43; Manual, 154. Lehm. Nov. Stirp. Pug. 9. 74; Rev. Pot. 194, **t. 62.** Engelm. Pl. Upp. Miss. 191. Paine, Cat. Pl. Oneida, 186. Buchan, Can. Naturalist, 14. 300. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 324.

Var. **Nicolletii.** Watson, Rev. Pot. 553.

P. Thurberi. Gray, Pl. Thurb. 318. Lehm. Ind. Sem. h. Hamb. 1854, 10 (Ann. Sci. Nat. 4. 2. 376); Otto's Gartenz. 10. 459; Rev. Pot. 92. Torrey, Mex. Bound. 64. Walp. Ann. 7. 868. Watson, Rev. Pot. 561.

P. tridentata. Solander, Ait. Hort. Kew. 2. 216, **t. 9.** See syn. in Lehm. Rev. Pot. 22. — Vahl, Symb. 2. 59. Willd. Sp. 2. 1110. Michx. Fl. 1. 302. Poir. Dict. 5. 601. Persoon, 2. 56. Pursh, 353. Nestler, Monog. Pot. 66. Lehm. Monog. Pot. 190; Hook. Fl. Bor.-Am. 1. 195; Rev. Pot. 22. Richard. Frankl. Journ. 12. Bigel. Fl. Bost. 2 ed. 204. Torrey, Fl. U. S. 495; Fl. N. Y. 1. 207. Spreng. Syst. 2. 514. Seringe, DC. Prodr. 2. 585. Don, Mill. 2. 552. Beck, Bot. 106. Torr. & Gray, Fl. 1. 445. Eat. & Wr. 372. Hook. f. in Journ. Linn. Soc. 5. 83. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 191 (Kane's Exped. 2. 454). Lange, Pl. Groenl. 135. Chapman, 124. Pl. Bourgeau, 256. Matthew, Fl. Acad. 15. Gray, Manual, 124. Watson, Rev. Pot. 562.

P. retusa. Mueller, Fl. Dan. 5, **t. 799.** Hornem. Fl. Dan. 11, **t. 1875.** Don, Mill. 2. 550.

P. Wheeleri. Watson, Proc. Am. Acad. 11. 148. Brew. & Wats. Bot. Calif. 1. 179.

P. arguta; glandulosa, Pennsylvanica.
aurea; maculata.
Bigelowiana; arguta.
bipinnatifida; Pennsylvanica.
Blaschkeana; gracilis.
canescens; humifusa.
Caroliniana; Canadensis.
chrysantha; gracilis.
Comarum; palustris.
concinna; gracilis, humifusa.
congesta; Horkelia congesta.
confertiflora; arguta.

P. crocea; maculata.
cuneata; Horkelia Californica.
depauperata; Ivesia depauperata.
diffusa; Hippiana.
digitato-flabellata; gracilis.
diversifolia; dissecta, Plattensis.
Drummondii; dissecta.
Durandii; Fragaria Indica.
Egedii; Anserina.
fastigiata; gracilis.
ferruginea; arguta.
fissa; glandulosa.

P. flabellifolia; gelida.
flabelliformis; gracilis.
floribunda; fruticosa.
frigida & *Fragaria;* emarginata.
glaucophylla; dissecta.
Gordoni; Ivesia Gordoni.
gossypina; effusa.
grandiflora; fragiformis, gelida.
Grœnlandica; emarginata.
hirsuta; nivea, Norvegica.
Jamesoniana; nivea.
Labradorica; Norvegica.
leucophylla; Hippiana.
lucida; fragiformis.
lycopodioides; Ivesia Gordoni.
millegrana; rivalis.
minima; frigida.
Missourica; Pennsylvanica.
Monspeliensis & *Morisoni;* Norvegica.
multijuga; Horkelia Californica.
nana; emarginata.
Newberryi; Ivesia gracilis.
nivalis; Geum Rossii.
nivea; emarginata, gracilis, pulchella.
Nuttallii & *olopetala;* gracilis.
P. opaca; maculata.
paradoxa; supina.
Pennsylvanica; arguta, Hippiana.
pentandra; rivalis.
Pickeringii; Ivesia Pickeringii.
procumbens; nemoralis.
prostrata; nivea.
pulchella; humifusa.
pulcherrima; Hippiana.
pumila; Canadensis.
recta; gracilis.
retusa; tridentata.
rigida; gracilis.
rivalis; glandulosa.
rubricaulis; dissecta, Hippiana.
rupestris; glandulosa.
Salisburgensis; maculata.
santolinoides; Ivesia santolinoides.
sarmentosa; Canadensis.
sericea; Pennsylvanica, Plattensis, pulchella.
simplex; Canadensis.
Vahliana; nivea.
verna; emarginata, maculata.
villosa; fragiformis.
Wrangelliana; glandulosa.

POTERIUM annuum. Nutt.; Hook. Fl. Bor.-Am. 1. 198. Don, Mill. 2. 598. Eat. & Wr. 374. Benth. & Hook. Gen. Pl. 1. 624. Gray, Proc. Am. Acad. 8. 381. Brew. & Wats. Bot. Calif. 1. 186.

Sanguisorba annua. Torr. & Gray, Fl. 1. 429. Walp. Rep. 2. 44. Hook. in Lond. Journ. Bot. 6. 218. Benth. Pl. Hartw. 309. Torrey, Marcy's Rep. 285, t. 5; Bot. Wilkes, 294. Engelm. Pl. Upp. Miss. 191. Gray, Pac. R. Rep. 12. 43. Young, Fl. Texas, 253.

Poteridium annuum. Spach, Ann. Sci. Nat. 3. 5. 43.

Sanguisorba myriophylla. A. Braun & Bouché, Ind. Sem. h. Berol. 1867, App. 10 (Seem. Journ. Bot. 7. 203).

P. Canadense. Benth. & Hook. Gen. Pl. 1. 624. Gray, Manual, 5 ed. 150.

Sanguisorba Canadensis. Linn. Spec. 117. Ait. Hort. Kew. 1. 156. Willd. Spec. 1. 654. Michx. Fl. 1. 100. Persoon, 1. 141. Poir. Dict. 6. 498. Pursh, 116. Roem. & Schult. Syst. 3. 206. Elliott, 1. 206. Bigel. Fl. Bost. 2 ed. 62. Torrey, Fl. U. S. 176; Fl. N. Y. 1. 205. Spreng. Syst. 1. 433. DC. Prodr. 2. 594. Hook. Fl. Bor.-Am. 1. 198, excl. var. Don, Mill. 2. 594. Beck, Bot. 115. Spach, Hist. Veg. 1. 486. Maund, Bot. Gard. 10, t. 442. Torr. & Gray, Fl. 1. 429, excl. var. Dietr. 1. 439. Eat. & Wr. 410. Walp. Rep. 2. 44. Ledeb. Fl. Ross. 2. 28, excl. var. Gray, Manual, 1 ed. 118. Seem. Bot. Herald, 29. Wood, Cl.-Book, 328. Rothr. Fl. Alask. 445. Maximowicz, in Bull. Acad. Petersb. 19. 159 (Mélang. Biol. 9. 151), excl. var.

S. media. Linn. Spec. 2 ed. 169. Ait. Hort. Kew. 1. 156. Lam. Ill. 1. 344. Willd. Spec. 1. 654; Enum. 163. Persoon, 1. 141. Poir. Suppl. 6. 498. Pursh, 116. Roem. & Schult. Syst. 3. 206. Elliott, 1. 206. Torrey, Fl. U. S. 176. Spreng.

Syst. 1. 433. DC. Prodr. 2. 594. Turpin, Dict. Sci. Nat. 47. 278, **t. 240**. Beck, Bot. 115. Eat. & Wr. 411. Dietr. 1. 439. Chapman, 122.

P. officinale. Benth. & Hook. Gen. Pl. 1. 624. See syn. in Ledeb. Fl. Ross. 2. 27, & Maxim. l. c. 161 (under *Sanguisorba*); Hook. f. Arct. Pl. 290 & 326. — Gray, Proc. Am. Acad. 7. 340 & 8. 381. Brew. & Wats. Bot. Calif. 1. 186.

Sanguisorba microcephala. Presl, Epimel. Bot. 202. Walp. Ann. 3. 855.

P. SANGUISORBA, Linn. Hook. Fl. Bor.-Am. 1. 198. Torr. & Gray, Fl. 1. 429. Eat. & Wr. 374. Wood, Cl.-Book, 326. Gray, Manual, 680.

P. Sitchense.

Sanguisorba Canadensis. Cham. & Schlecht. in Linnæa, 2. 32. Bongard, Veg. Sitch. 133.

S. media. Hook. Fl. 1. 197. Don, Mill. 2. 594. Presl, Epimel. Bot. 202.

S. Canadensis, var. *latifolia.* Hook. Fl. Bor.-Am. 1. 198. Torr. & Gray, Fl. 1. 429. Ledeb. Fl. Ross. 2. 28.

S. Sitchensis. C. A. Meyer; Trautv. & Meyer, Fl. Ochot. 34.

S. Canadensis, var. *media.* Maximowicz, l. c. 151.

PRUNUS Americana. Marshall, Arbust. 111. Darlington, Ann. Lyc. N. Y. 3. 87, **t. 1**; Fl. Cestr. 287. Beck, Bot. 95. Torr. & Gray, Fl. 1. 407; Pac. R. Rep. 2. 164. Eat. & Wr. 377. Torrey, Fl. N. Y. 1. 194; Emory's Rep. 408; Pac. R. Rep. 4. 82. Emerson, Trees of Mass. 449. Hook. in Lond. Journ. Bot. 6. 217. Roem. Syn. Monogr. 3. 59. Gray, Pl. Fendl. 40; Manual, 148. Scheele, Roem. Texas, 430. Nutt. Sylva, 2. 19, **t. 48**. Richard. Arct. Exped. 424. Parry, Pl. Minn. 611. Engelm. Pl. Upp. Miss. 190. Curtis, Bot. N. Car. 56. Lesqx. Fl. Ark. 358. Chapman, 119. Pl. Bourgeau, 256. Porter, Fl. Col. 33.

? *P. Mississippi.* Marshall, Arbust. 112.

P. spinosa. Walter, 146.

P. nigra. Ait. Hort. Kew. 2. 165. Willd. Spec. 2. 993. Poir. Dict. 5. 674. Persoon, 2. 35. Sims, Bot. Mag. **t. 1117**. Pursh, 331. Torrey, Fl. U. S. 469. Spreng. Syst. 2. 477. Roem. Syn. Monog. 3. 59.

Cerasus nigra. Loisel. in Nouv. Duham. 5. 32. Seringe, DC. Prodr. 2. 538. Hook. Fl. Bor.-Am. 1. 167; Comp. Bot. Mag. 1. 24. Don, Mill. 2. 513. Beck, Bot. 96. Spach, Hist. Veg. 1. 399. Loud. Arb. 2. 704, **f. 411, 412**.

P. hiemalis. Elliott, 1. 542.

Var. **mollis.** Torr. & Gray, Fl. 1. 307.

? *P. Canadensis.* Linn. Spec. 2 ed. 678. Willd. Spec. 2. 986. Poir. Dict. 5. 665. Persoon, 2. 34. Pursh, 330. Torrey, Fl. U. S. 468. Dietr. 3. 42. Suppressed by Torr. & Gray, Fl. 1. 408.

P. hiemalis. Michx. Fl. 1. 284. Poir. Dict. 5. 679. Persoon, 2. 35. Loisel. in Nouv. Duham. 5. 184. Spreng. Syst. 2. 477. Spach, Hist. Veg. 1. 398. Roem. Syn. Monog. 3. 59.

Cerasus Canadensis. Loisel. in Nouv. Duham. 5. 3. Seringe, DC. Prodr. 2. 539. Don, Mill. 2. 515. Beck, Bot. 97. Spach, Hist. Veg. 1. 417. Eat. & Wr. 189. Loud. Arb. 2. 713.

P. mollis. Torrey, Fl. U. S. 470. Beck, Bot. 95.

Cerasus hiemalis. Seringe, DC. Prodr. 2. 538. Hook. Fl. Bor.-Am. 1. 168. Beck, Bot. 96. Loud. Arb. 2. 704. Don, Mill. 2. 504.

Cerasus Americana. Hook. Comp. Bot. Mag. 1. 24.

Padus Canadensis. Roem. Syn. Monog. 3. 88.

P. Andersoni. Gray, Proc. Am. Acad. 7. 337 & 10. 70. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 79. Brew. & Wats. Bot. Calif. 1. 168.

P. Capollin. Zucc. Abhandl. Acad. Münch. 2. 345, **t. 8.** Roem. Syn. Monog. 3. 87. Torrey, Mex. Bound. 62.

P. Capuli. Cav.; Spreng. Syst. 2. 477. Schlecht. in Linnæa, 13. 89 & 404.

Cerasus Capollin. DC. Prodr. 2. 530. Benth. Pl. Hartw. 10. Torr. & Gray, Fl. 1. 412. Gray, Pl. Wright. 2. 54.

Cerasus Capuli. Seringe, DC. Prodr. 2. 541. Don, Mill. 2. 516. Spach, Hist. Veg. 1. 422.

P. Caroliniana. Ait. Hort. Kew. 2. 103. Willd. Spec. 2. 987. Poir. Dict. 5. 667. Persoon, 2. 34. Spreng. Neue Entdeck. 1. 304; Syst. 2. 478. Elliott, 1. 540. Audubon, Birds, **t. 159** & **190.** Schlecht. in Linnæa, 13. 89. Dietr. 3. 43. Curtis, Bot. N. Car. 57. Chapman, 120. Wood, Bot. & Fl. 103. Gray, Hall's Pl. Texas, 9.

P. Carolina. Mill.; DuRoi, Harbk. 2. 108.

P. serratifolia. Marshall, Arbust. 114.

P. Lusitanica. Walter, 146.

Cerasus Caroliniana. Michx. Fl. 1. 285. Loisel. in Nouv. Duham. 5. 5. Michx. f. Arb. Am. 3. 156, **t. 7.** Seringe, DC. Prodr. 2. 540. Don, Mill. 2. 516. Spach, Hist. Veg. 1. 420. Torr. & Gray, Fl. 1. 411. Eat. & Wr. 190. Loud. Arb. 2. 720, **f. 423.** Wood, Cl.-Book, 326.

Bumelia serrata. Pursh, 155.

Leptocarpa Caroliniana. Nutt. Sylva, 2. 18.

Chimanthus amygdalinus. Raf. Fl. Lud. 159.

Laurocerasus Caroliniana. Roem. Syn. Monog. 3. 90.

P. Chicasa. Michx. Fl. 1. 284. Poir. Dict. 5. 680. Persoon, 2. 35. Loisel. in Nouv. Duham. 5. 183. Elliott, 1. 542. James, Cat. 182. Torrey, Ann. Lyc. N. Y. 2. 194; Pac. R. Rep. 4. 82. Spreng. Syst. 2. 476. Audubon, Birds, **t. 53.** Spach, Hist. Veg. 1. 397. Darling. Fl. Cestr. 287. Torr. & Gray, Fl. 1. 407, excl. var.; Pac. R. Rep. 2. 164. Eat. & Wr. 377. Roem. Syn. Monog. 3. 58. Curtis, Bot. N. Car. 56. Chapman, 119. Gray, Manual, 148; Hall's Pl. Texas, 9. Porter, Fl. Col. 33.

P. angustifolia. Marshall, Arbust. 111.

P. insititia. Walter, 146.

Cerasus Chicasa. Seringe, DC. Prodr. 2. [illegible] Hook. Fl. Bor.-Am. 1. 168; Comp. Bot. Mag. 1. 24. Don, Mill. 2. 514. Loud. [illegible]

P. demissa. Walp. Rep. 2. 10. Dietr. 3. 43. Benth. Pl. Hartw. 307. Torrey, Mex. Bound. 63. Watson, King's Rep. 5. 80; Pl. Wheeler, 8. Porter, Hayd. Rep. 1871, 481. Coulter, same, 1872, 764. Rothr. Pl. Wheeler, 37. Brandegee, Fl. S. W. Col. 236. Brew. & Wats. Bot. Calif. 1. 167.

Cerasus serotina. Hook. Fl. Bor.-Am. 1. 169, in part.

Cerasus demissa. Nutt.; Torr. & Gray, Fl. 1. 411. Gray, Pl. Fendl. 40. Durand, Pl. Pratten. 87. Torrey, Pac. R. Rep. 4. 83. Newberry, same, 6. 73. Cooper, same, 12. 59.

Padus demissa. Roem. Syn. Monog. 3. 87.

Prunus Virginiana, var. *demissa.* Torrey, Bot. Wilkes, 284. Gray, Proc. Am. Acad. 8. 381.

P. DOMESTICA, Linn. Gray, Pl Fendl. 40.

P. emarginata. Walp. Rep. 2. 9. Dietr. 3. 42. Loud. Arb. 2. 714. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 79. Torrey, Bot. Wilkes, 284. Brew. & Wats. Bot. Calif. 1. 167.

Cerasus emarginata. Dougl.; Hook. Fl. Bor.-Am. 1. 169. Don, Mill. 2. 515.

Torr. & Gray, Fl. 1. 410. Eat. & Wr. 189. Roem. Syn. Monog. 3. 79. Torrey, Pac. R. Rep. 4. 83. Boland. Proc. Calif. Acad. 3. 79.

Cerasus erecta. Presl, Epimel. Bot. 194. Walp. Ann. 3. 854.

Cerasus glandulosa. Kellogg, Proc. Calif. Acad. 1. 59.

Var. **mollis.** Brewer, Bot. Calif. 1. 167.

Cerasus mollis. Dougl.; Hook. Fl. Bor.-Am. 1. 169; Lond. Journ. Bot. 6. 217. Don, Mill. 2. 515. Torr. & Gray, Fl. 1. 410. Eat. & Wr. 189. Loud. Arb. 2. 714. Roem. Syn. Monog. 3. 79. Nutt. Sylva, 2. 14, **t. 46.** Richard. Arct. Exped. 425. Newberry, Pac. R. Rep. 6. 73. Cooper, same, 12. 29 & 50; Am. Naturalist, 3. 406. Gray, Proc. Am. Acad. 8. 381.

P. mollis. Walp. Rep. 2. 9. Dietr. 3. 42. Torrey, Bot. Wilkes, 284.

P. fasciculata. Gray, Proc. Am. Acad. 10. 70 & 71. Parry, Am. Naturalist, 9. 270. Brew. & Wats. Bot. Calif. 1. 168.

Emplectocladus fasciculatus. Torrey, Pl. Frem. 10, **t. 5** (Regensb. Flora, 36. 705); Proc. Am. Assoc. 4. 192. Walp. Ann. 4. 656. Gray, Ives's Rep. 11. Benth. & Hook. Gen. Pl. 1. 614.

P. minutiflora. Watson, King's Rep. 5. 420.

P. glandulosa. Torr. & Gray, Fl. 1. 408 & 606. Engelm. & Gray, Pl. Lindh. 35. Roem. Syn. Monog. 3. 36. Gray, Pl. Lindh. 186; Hall's Pl. Texas, 9; Proc. Am. Acad. 10. 71. Young, Fl. Texas, 252.

Amygdalus glandulosa. Hook. Icon. **t. 288.** Walp. Rep. 2. 8. Roem. Syn. Monog. 3. 14.

P. Texana. Dietr. 3. 45.

P. gracilis. Engelm. & Gray, Pl. Lindh. 35. Torrey, Pac. R. Rep. 4. 83. Gray, Hall's Pl. Texas, 9.

P. Chicasa, var. (?) *normalis.* Torr. & Gray, Fl. 1. 407. Roem. Syn. Monog. 3. 58.

P. ilicifolia. Walp. Rep. 2. 10. Dietr. 3. 43. Torrey, Mex. Bound. 63; Bot. Wilkes, 285. Boland. Cat. 10. Brew. & Wats. Bot. Calif. 1. 285.

Cerasus ilicifolia. Nutt.; Hook. & Arn. Bot. Beechey, 340, **t. 83.** Torr. & Gray, Fl. 1. 411. Torrey, Emory's Rep. 139; Pac. R. Rep. 4. 83. Nutt. Sylva, 2. 16, **t. 47.** Paxton, Fl. Gard. 3. 44, **f. 254.** Boland. Proc. Calif. Acad. 3. 79 & 4. 22. Garden, 1873, 131, **fig.**

Laurocerasus ilicifolia. Roem. Syn. Monog. 3. 92.

P. maritima. Wangenh. Amer. 103. Marsh. Arbust. 112. Willd. Enum. 1. 519. Pursh, 332. Poir. Suppl. 4. 584. Elliott, 1. 543. Torrey, Fl. U. S. 470; Fl. N. Y. 1. 194. Spreng. Syst. 2. 476. Seringe, DC. Prodr. 2. 533. Don, Mill. 2. 499. Beck, Bot. 95. Spach, Hist. Veg. 1. 397. Torr. & Gray, Fl. 1. 408. Eat. & Wr. 377. Loud. Arb. 2. 691. Emerson, Trees of Mass. 449. Roem. Syn. Monog. 3. 57. Gray, Manual, 148.

P. cerasifera. Ehrhart, Beitr. 4. 17. Willd. Arb. 250; Spec. 2. 997. Persoon, 2. 35. Spreng. Syst. 2. 476.

P. sphærocarpa. Michx. Fl. 1. 284. Poir. Dict. 5. 666. Persoon, 2. 35. Loisel. in Nouv. Duham. 5. 183.

P. pubescens. Pursh, 331. Poir. Suppl. 4. 583. Torrey, Fl. U. S. 469. Spreng. Syst. 2. 477. Eat. & Wr. 189. Roem. Syn. Monog. 3. 57.

P. littoralis. Bigelow, Fl. Bost. 2 ed. 193.

Cerasus pubescens. Seringe, DC. Prodr. 2. 538. Don, Mill. 2. 514. Beck, Bot. 96. Loud. Arb. 2. 705.

Cerasus cerasifera & littoralis. Eat. & Wr. 189.

Var. β. Torr. & Gray, Fl. 1. 408. Torrey, Fl. N. Y. 1. 195.

? *P. declinata.* Marshall, Arbust. 112.

P. pygmæa. Willd. Arb. 248; Spec. 2. 993; Enum. 1. 518. Poir. Dict. 5. 674. Persoon, 2. 35. Pursh, 331. Torrey, Fl. U. S. 469. Spreng. Syst. 2. 477. Spach, Hist. Veg. 1. 399. Roem. Syn. Monog. 3. 60.

P. acuminata. Michx. Fl. 1. 284. Poir. Dict. 5. 680. Persoon, 2. 35. Loisel. in Nouv. Duham. 5. 183. Seringe, DC. Prodr. 2. 533. Don, Mill. 2. 499. Roem. Syn. Monog. 3. 60.

Cerasus pygmæa. Loisel. in Nouv. Duham. 5. 32. Seringe, DC. Prodr. 2. 538. Don, Mill. 2. 513. Beck, Bot. 96. Eat. & Wr. 189. Loud. Arb. 2. 704.

? *P. reclinata.* Bosc.; Spach, Hist. Veg. 1. 398. Roem. Syn. Monog. 3. 58.

P. minutiflora. Engelm. in Gray, Pl. Lindh. 185. Torrey, Mex. Bound. 63. Gray, Proc. Am. Acad. 10. 71.

Cerasus minutiflora. Gray, Pl. Wright. 1. 68 & 2. 54. Bigelow, Pac. R. Rep. 4. 14. Torrey, same, 4. 83.

P. Pennsylvanica. Linn. f. Suppl. 252. Willd. Arb. 248; Spec. 2. 992. Poir. Dict. 5. 673. Persoon, 2. 35. Loisel. in Nouv. Duham. 5. 9. Ait. f. Hort. Kew. 2. 165. Pursh, 331. Torrey, Fl. U. S. 468. Spreng. Syst. 2. 477. Beck, Am. Journ. Sci. 14. 112. Dietr. 3. 42. Curtis, Bot. N. Car. 57. Chapman, 120. Gray, Proc. Acad. Philad. 1863, 61; Manual, 148. Porter, Fl. Col. 33. Emerson, Trees of Mass. 2 ed. 2. 513.

? *P. montana.* Marshall, Arbust. 113.

P. lanceolata. Willd. Arb. 240, **t. 3, f. 3.**

Cerasus borealis. Michx. Fl. 1. 286. Loisel. in Nouv. Duham. 5. 32. Michx. f. Arbr. Amer. 3. 159, **t. 8.** Seringe, DC. Prodr. 2. 538. Don, Mill. 2. 513. Beck, Bot. 97. Loud. Arb. 2. 703, **f. 410.** Roem. Syn. Monog. 3. 78.

P. borealis. Poir. Dict. 5. 674. Pursh, 538. Bigel. Fl. Bost. 2 ed. 193. Lodd. Bot. Cab. **t. 1598.**

? *P. cerasifolia.* Desf. Arb. 2. 205.

? *Cerasus persicifolia.* Loisel. in Nouv. Duham. 5. 9. Seringe, DC. Prodr. 2. 537. Don, Mill. 2. 512. Spach, Hist. Veg. 1. 411. Roem. Syn. Monog. 3. 81.

Cerasus Pennsylvanica. Seringe, DC. Prodr. 2. 539. Hook. Fl. Bor.-Am. 1. 168. Don, Mill. 2. 514. Beck, Bot. 97. Torr. & Gray, Fl. 1. 409. Eat. & Wr. 189. Torrey, Fl. N. Y. 1. 196. Loud. Arb. 2. 705. Emerson, Trees of Mass. 451. Roem. Syn. Monog. 3. 57. Gray, Manual, 1 ed. 115. Nutt. Sylva, 2. 15. Richard. Arct. Exped. 425. Pl. Bourgeau, 256.

P. pumila. Linn. Mant. 75, excl. syn. DuRoi, Obs. Bot. 11. Ait. Hort. Kew. 2. 164. Willd. Spec. 2. 990. Poir. Dict. 5. 673. Persoon, 2. 34. Loisel. in Nouv. Duham. 5. 31. Pursh, 331. Torrey, Fl. U. S. 469. Guimp. Otto & Hayne, **t. 119.** Spreng. Syst. 2. 477. Spach, Hist. Veg. 1. 400. Dietr. 3. 44. Emerson, Trees of Mass. 2 ed. 2. 515. Engelm. Pl. Upp. Miss. 190. Gray, Manual, 148.

Cerasus pumila. Michx. Fl. 1. 286. Seringe, DC. Prodr. 2. 537. Hook. Fl. Bor.-Am. 1. 167. Don, Mill. 2. 513. Beck, Bot. 96. Torr. & Gray, Fl. 1. 409. Eat. & Wr. 189. Torrey, Fl. N. Y. 1. 195; Nicol. Rep. 149. Loud. Arb. 2. 703. Emerson, Trees of Mass. 453. Roem. Syn. Monog. 3. 72. Gray, Manual, 1 ed. 115. Richard. Arct. Exp. 424 & 425. Pl. Bourgeau, 256.

Cerasus glauca. Moench, Meth. 672.

P. Susquehannæ. Willd. Arb. 2 ed. 286; Enum. 519. Spach, Hist. Veg. 1. 399.

P. depressa. Pursh, 332. Poir. Suppl. 4. 584. Nutt. Genera, 1. 302. Bigelow, Fl. Bost. 2 ed. 193. Torrey, Fl. U. S. 470. Spreng. Syst. 2. 477. Lodd. Bot. Cab. **t. 1607.**

P. cuneata. Raf. Ann. Nat. 11.

P. incana. Schweinitz, Long's Exped. 2, Appx. 113.

Cerasus Susquehannæ. Eat. & Wr. 189.

Cerasus depressa. Seringe, DC. Prodr. 2. 538. Hook. Fl. Bor.-Am. 1. 168. Don, Mill. 2. 514. Beck, Bot. 96. Eat. & Wr. 189. Loud. Arb. 2. 704. Roem. Syn. Monog. 3. 58.

P. rivularis. Scheele, Linnæa, 21. 594; Roem. Texas, 4. 30. Gray, Pl. Lindh. 186; Pl. Wright, 1. 67; Hall's Pl. Texas, 9. Walp. Ann. 2. 465.

P. Texana. Scheele, Linnæa, 21. 593.

P. serotina. Ehrh. Beitr. 3. 20. Willd. Arb. 239, **t. 5, f. 2**; Spec. 2. 986. Persoon, 2. 34. Ait. f. Hort. Kew. 3. 196. Guimp. Otto & Hayne, **t. 37**. Spreng. Syst. 2. 478. Nees, Pl. Neuwied, 9. Emerson, Trees of Mass. 2 ed. 2. 515, **t.** Engelm. Pl. Upp. Miss. 190. Curtis, Bot. N. Car. 56. Hook. f. Arct. Pl. 327. Lesqx. Fl. Ark. 358. Chapman, 120. Gray, Manual, 149; Hall's Pl. Texas, 9. Torrey, Bot. Wilkes, 284. Brew. & Wats. Bot. Calif. 167.

P. Virginiana. Mill. Dict., not Linn. DuRoi, Obs. Bot. 12; Harbk. 2. 191. Wangenh. Amer. **t. 14, f. 33**. Medicus, Bot. Beobacht. 1782, 345. Marsh. Arbust. 112. Walter, 146. Ait. Hort. Kew. 2. 163. Poir. Dict. 5. 664. Pursh, 329. Bigel. Fl. Bost. 118. Elliott, 1. 540. Torrey, Fl. U. S. 467.

? *Padus oblonga.* Moench, Meth. 671.

Cerasus Virginiana. Michx. Fl. 1. 285. Michx. f. Arbr. Am. 3. 151, **t. 6**. Hook. Fl. Bor.-Am. 1. 169, excl. syn. Don, Mill. 2. 515. Beck, Bot. 97. Darling. Fl. Cestr. 289. Loud. Arb. 2. 710, **f. 418**.

Cerasus serotina. Loisel. in Nouv. Duham. 5. 3. Seringe, DC. Prodr. 2. 540. Spach, Hist. Veg. 1. 416. Torr. & Gray, Fl. 1. 410. Eat. & Wr. 189. Torrey, Fl. N. Y. 1. 196; Pac. R. Rep. 7. 11. Loud. Arb. 2. 712, **t. 118** & **f. 419**. Emerson, Trees of Mass. 453. Gray, Manual, 1 ed. 115; Pl. Lindh. 186. Richard. Arct. Exp. 425. Bolander, Proc. Calif. Acad. 3. 79.

P. cartilaginea. Lehm. Ind. Sem. Hamb. 1833 (Litt.-Ber. zu Linnæa, 10. 76).

Padus serotina. Agardh, Theor. Syst. **t. 14, f. 8** (fr.).

Padus Virginiana & cartilaginea. Roem. Syn. Monog. 3. 86.

P. SPINOSA, Linn. Pursh, 333. Hook. Fl. Bor.-Am. 1. 167. Beck, Bot. 95. Torr. & Gray, Fl. 1. 408. Curtis, Bot. N. Car. 56. Gray, Manual, 148.

Var. INSITITIA. Gray, Manual, 148.

P. insititia, Linn. Emerson, Trees of Mass. 450. Gray, Manual, 1 ed. 115. Wood, Cl.-Book, 328.

P. subcordata. Benth. Pl. Hartw. 308. Torrey, Pac. R. Rep. 4. 82; Mex. Bound. 63. Newberry, Pac. R. Rep. 6. 73. Brew. & Wats. Bot. Calif. 1. 167.

P. umbellata. Elliott, 1. 541. Dietr. 3. 44. Chapman, 119. Wood, Cl.-Book, 328; Bot. & Fl. 102.

P. pumila. Walter, 146.

Cerasus umbellata. Torr. & Gray, Fl. 1. 409. Eat. & Wr. 190. Roem. Syn. Monog. 3. 78.

P. Virginiana. Linn. Spec. 473, excl. syn. Willd. Spec. 2. 985. Persoon, 2. 34. Guimp. Otto & Hayne, **t. 36**. Spreng. Syst. 2. 478. Dietr. 3. 42. Emerson, Trees of Mass. 2 ed. 2. 518, **t.** Torrey, Mex. Bound. 62. Hook. f. Arct. Pl. 290. Chapman, 120. Gray, Am. Journ. Sci. 2. 33. 411; Manual, 148. Challis, in Am. Naturalist, 2. 324. Watson, King's Rep. 5. 80. Porter, Fl. Col. 33. Brew. & Wats. Bot. Calif. 1. 167.

P. Canadensis. Marshall, Arbust. 113.

P. rubra. Ait. Hort. Kew. 2. 162. Willd. Arb. 238, **t. 5, f. 1.** Guimp. Ott. & Hayne, **t. 78.**

P. serotina. Poir. Dict. 5. 365. Pursh, 330. Elliott, 1. 541. Torrey, Fl. N. Y. 1. 467.

? *P. hirsuta.* Elliott, 1. 541.

P. obovata. Bigel. Fl. Bost. 2 ed. 192.

Cerasus Virginiana. Loisel. in Nouv. Duham. 5. 3. James, Long's Exp. 3. 12. Seringe, DC. Prodr. 2. 539. Spach, Hist. Veg. 1. 414. Lindl. Fl Med. 232. Darling. Fl. Cestr. 289. Torr. & Gray, Fl. 1. 410. Eat. & Wr. 189. Torrey, Fl. N. Y. 1. 196; Nicol. Rep. 149; Frem. Rep. 89; Emory's Rep. 408; Pac. R. Rep. 4. 83. Emerson, Trees of Mass. 456. Gray, Manual, 1 ed. 115; Pac. R. Rep. 12. 42. Richard. Arct. Exp. 42. Engelm. Pl. Upp. Miss. 190. Cooper, Pac. R. Rep. 12. 30; Am. Naturalist, 3. 406. Pl. Bourgeau, 256. Boland. Proc. Calif. Acad. 4. 22; Cat. 10. Porter, Hayd. Rep. 1870, 475.

Cerasus serotina. Hook. Fl. Bor.-Am. 1. 169, excl. syn. Don, Mill. 2. 515. Beck, Bot. 97.

Cerasus obovata. Beck, Bot. 97. Eat. & Wr. 189.

Cerasus hirsuta. Spach, Hist. Veg. 1. 417. Eat. & Wr. 190.

P. densiflora & fimbriata. Spach, Hist. Veg. 1. 414.

Cerasus Duerinckii. Martens, Sel. Sem. h. Lovan. 1840 (Litt.-Ber. zu Linnæa, 1841, 99); Bull. Brux. 8. 68.

P. Duerinckii. Walp. Rep. 2. 10.

Padus serotina, rubra, hirsuta, obovata, densiflora & fimbriata. Roem. l. c.

Var. β. Torr. & Gray, Fl. 1. 410.

P. nana. DuRoi, Obs. Bot. 12.

Cerasus micrantha. Spach, Hist. Veg. 1. 414.

Padus micrantha. Roem. Syn. Monog. 3. 84.

Var. Gray, Pl. Wright. 2. 54.

Cerasus Virginiana. Gray, Pl. Fendl. 40.

P. Armeniaca, Linn.

Armeniaca vulgaris, Lam. Gray, Pl. Fendl. 40.

P. acuminata; maritima.
angustifolia; Chicasa.
borealis; Pennsylvanica.
Canadensis; Americana, Virginiana.
Capuli; Capollin.
cartilaginea; serotina.
cerasifera; maritima.
cerasifolia; Pennsylvanica.
Chicasa; gracilis.
cuneata; pumila.
declinata; maritima.
densiflora; Virginiana.
depressa; pumila.
Duerinckii & fimbriata; Virginiana.
hiemalis; Americana.
hirsuta; Virginiana.
incana; pumila.
insititia; Chicasa, spinosa.
lanceolata; Pennsylvanica.

P. littoralis; maritima.
Lusitanica; Caroliniana.
minutiflora; fasciculata.
Mississippi; Americana.
mollis; emarginata.
montana; Pennsylvanica.
nana; Virginiana.
nigra; Americana.
obovata; Virginiana.
pubescens; maritima.
pumila; umbellata.
pygmæa & reclinata; maritima.
rubra & serotina; Virginiana.
serratifolia; Caroliniana.
sphærocarpa; maritima.
spinosa; Americana.
Susquehannæ; pumila.
Texana; glandulosa, rivularis.
Virginiana; demissa, serotina.

PURSHIA tridentata. DC. in Trans. Linn. Soc. 12. 157; Prodr. 2. 541. Hook. Fl. Bor.-Am. 1. 170, **t. 58**; Lond. Journ. Bot. 6. 218. Lindl. Bot. Reg. 17, **t. 1446**. Don, Mill. 2. 517. Nutt. in Journ. Acad. Philad. 7. 20. Spach, Hist. Veg. 1. 429. Torr. & Gray, Fl. 1. 428. Eat. & Wr. 381. Loud. Arb. 2. 721, **f. 424, 425**. Torrey, Frem. Rep. 89 & 314; Bot. Wilkes, 287. Cooper, Pac. R. Rep. 12. 17. Gray, Ives's Rep. 11; Proc. Acad. Philad. 1863, 61. Baillon, Pl. Hist. 1. 380. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 82; Pl. Wheeler, 8. Porter, Fl. Col. 34. Brew. & Wats. Bot. Calif. 1. 173.

Tigarea tridentata. Pursh, 333, **t. 15**. Nutt. Genera, 1. 302. Dietr. 3. 47.

ROSA acicularis. Lindl. Ros. Monog. 44, **t. 8.** See syn. in C. A. Meyer, Zimmtrosen, 15; Crépin, Prim. Monog. Ros. 299; Regel, Ros. Monogr. 18. —

Var. **Bourgeauiana.** Crépin, l. c. 386 & 390. Referred to var. *Gmelini*, Meyer, by Regel, l. c.

R. blanda. Richard. Frankl. Journ. Appx. 11. Borrer in Hook. Fl. Bor.-Am. 1. 199, in part ?

R. Sayi. Schweinitz, in Keating, Long's Exped. 2, Appx. 113. Eaton, Manual, 5 ed 367. Eat. & Wr. 398.

? *R. majalis.* Borrer, l. c. 201; fide Crépin, l. c. 458. Eat. & Wr. 398.

R. cinnamomea, var. *β.* Torr. & Gray, Fl. 1. 459.

R. Bourgeauiana. Crépin, l. c. 303.

R. blanda. Ait. Hort. Kew. 2. 202. Jacq. Fragm. Bot. 70, **t. 105.** Willd. Spec. 2. 1065; Enum. 554. Poir. Dict. 6. 290. Persoon, 2. 47. Nouv. Duham. 7. 23. Smith, Rees Cyc. Raf. Ros. Am. in Ann. Sci. Phys. 5. 216. Tratt. Ros. 2. 151. Spreng. Syst. 2. 548. Hook. Fl. Bor.-Am. 1. 199, in part. Don, Mill. 2. 566. Torr. & Gray, Fl. 1. 459. Eat. & Wr. 397. Torrey, Fl. N. Y. 1. 219; Frem. Rep. 89? Dietr. 3. 195. Meyer, Zimmtros. 5 & 12. Richard. Arct. Exped. 427. Parry, Pl. Minn. 612. Seem. Bot. Herald, 29. Engelm. Pl. Upp. Miss. 191. Gray, Pac. R. Rep. 12. 43; Manual, 159. Hook. f. Arct. Pl. 290 & 327. Pl. Bourgeau, 256, in part. Traill, Canad. Fl. 63, **t. 7.** Porter, Hayd. Rep. 1870, 475? Crépin, Prim. Monog. Ros. 174, 386 & 393. Regel, Ros. Monogr. 15.

R. fraxinifolia. Gmel. Fl. Bad. 2. 413. Lindl. Ros. 26; Bot. Reg. 6, **t. 458**. Spreng. Syst. 2. 548. Seringe, DC. Prodr. 2. 606. Don, Mill. 2. 566. Spach, Hist. Veg. 2. 18. Loud. Arb. 2. 754, **f. 480**. Coulter, Hayd. Rep. 1872, 765. Porter, Fl. Col. 38.

R. Pennsylvanica. Michx. Fl. 1. 296 in part.

? *R. nivea.* Raf. Ann. Sci. Phys. 5. 218. Crépin, l. c. 380. Dietr. 3. 198.

R. Woodsii. Lindl. Ros. 21; Bot. Reg. 12, **t. 976**. Spreng. Neue Entdeck. 3. 244; Syst. 2. 547. Tratt. Ros. 2. 167. Seringe, DC. Prodr. 2. 604. Don, Mill. 2. 566. Spach, Hist. Veg. 2. 19. Torr. & Gray, Fl. 1. 460. Eat. & Wr. 398. Dietr. 3. 195. Loud. Arb. 2. 753. Meyer, Zimmtros. 17.

R. cinnamomea, var. *blanda.* Thory, Redout. Ros. 1. 134.

? *R. Rafinesquii.* Seringe, DC. Prodr. 2. 611. Don, Mill. 2. 571.

? *R. laevigata.* Borrer, Hook. Fl. Bor.-Am. 1. 200.

R. parviflora, var. *inermis.* H. H. Eaton, Transyl. Journ. Med. 1832.

R. blanda, var. *glabra.* Crépin, l. c. 394.

Var. **pubescens.** Crépin, l. c. 394.

R. blanda. Lindl. Ros. 25.

R. gemella. Willd. Enum. 544, in only; fide Crépin, l. c. 189, 457. Pursh, 344. Poir. Suppl. 4. 711. Raf. Ann. Sci. Phys. 5. 216. Lindl. Ros. 134. Elliott, 1. 364. Tratt. Ros. 2. 161. Torrey, Fl. U. S. 485. Spreng. Syst. 2. 547. Beck, Bot. 110. Eat. & Wr. 397.

? *R. dasistema.* Raf. l. c. 219. Seringe, l. c. 623. Don, l. c. 586. Dietr. 3. 204. Crépin, l. c. 380.

R. Solandri. Tratt. Ros. 2. 150.

R. cinnamomea, var. *glabella.* Seringe, DC. Prodr. 2. 605.

Var. **setigera.** Crépin, l. c. 394.

R. Woodsii, var. Borrer, Hook. Fl. Bor.-Am. 1. 199.

R. stricta, var. *β.* Borrer, l. c. 200. Torr. & Gray, Fl. 1. 461.

? *R. blanda.* Torrey, Nicol. Rep. 149.

R. blanda, var. *β.* Gray, Pl. Fendl. 42 ? ; Pl. Wright. 1. 68, & 2. 55 ? Torrey, Sitgr. Rep. 159.

R. Arkansana. Porter, Fl. Colorado, 38. Rothr. Pl. Wheeler, 37. So referred by Crépin, l. c. 397.

R. stricta. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 324. — The *R. stricta* of Donn, Muhl., Lindl., & others (as well as the *R. lutescens* of Pursh, *R. Americana*, Waitz, and *R. pendulina* of authors), appears to belong wholly to the foreign *R. pimpinellifolia* or *R. alpina*, according to Crépin, l. c. 152, 457 & 459.

R. BRACTEATA, Wendl. Torr. & Gray, Fl. 1. 462. Wood, Cl.-Book, 334.

R. Californica. Cham. & Schlecht. in [illegible] 2. 35. Don, Mill. 2. 569. Torr. & Gray, Fl. 1. 462. Walp. Rep. 2. 12. Di[illegible] 97. Benth. Bot. Sulph. 14; Pl. Hartw. 309. Meyer, Zimmtros. 18. Presl, [illegible]mel. Bot. 202. Gray, Proc. Am. Acad. 8. 382. Brew. & Wats. Bot. Calif. 1. 187. Crépin, Prim. Monog. Ros. 410, with vars. To *R. Carolina* mainly, by Regel, Ros. Monogr. 77.

R. blanda. Hook. & Arn. Bot. Beechey, 339. Durand, Pl. Pratten. 87. Torrey, Pac. R. Rep. 4. 85 & 7. 11; Mex. Bound. 64. Boland. Proc. Calif. Acad. 3. 80; Cat. 11.

R. fraxinifolia. Dur. & Hilg. in Pac. R. Rep. 5. 7.

Var. **pubescens.** Crépin, l. c. 413.

R. cinnamomea, var. Benth. Pl. Hartw. 309

R. cinnamomea. Torrey, Pac. R. Rep. 7. 11.

R. Californica. Regel, Ros. Monogr. 79.

Var. **glandulosa.** Crépin, l. c.

R. Californica, var. *Petersiana.* Meyer, Zimmtros. 19.

Var. **ultramontana.** Watson, Bot. Calif. 187.

R. foliolosa, var. *leiocarpa.* Torrey, Frem. Rep. 89.

? *R. Maximiliani.* Nees, Pl. Neuwied, 8.

R. Woodsii. Gray, Pl. Fendl. 42.

R. blanda. Gray, Pl. Fendl. 42; Am. Journ. Sci. 2. 33. 411. Durand, Fl. Utah, 163. Anderson, Cat. Pl. Nev. 120. Porter, Fl. Col. 38. Watson, King's Rep. 5. 91. Coulter, Hayd. Rep. 1872, 765. Rothr. Pl. Wheeler, 37.

R. foliolosa. Torrey, Pac. R. Rep. 4. 85.

R. gymnocarpa. Porter, Hayd. Rep. 1870, 475.

? *R. Californica.* Gray, Proc. Am. Acad. 8. 382. Watson, Pl. Wheeler, 8.

R. Fendleri. Crépin, l. c. 452.

R. cinnamomea, var. *Dahurica.* Regel, l. c. 41, in part.

R. CANINA, Linn. Tuckerman, Josselyn's Rarities, 120. Gray, Manual, 680.

R. Carolina. Linn. Spec. 2 ed. 703. DuRoi, Obs. Bot. 21. Wangenh. Amer. 112, t. **31, f. 71.** Ait. Hort. Kew. 2. 203. Willd. Spec. 2. 1069. Persoon, 2. 48. Pursh, 345. Bigel. Fl. Bost. 121. Loisel. in Nouv. Duham. 7. 15. Raf. Ann. Sci. Phys. 5. 214. Elliott, 1. 565. Lindl. Ros. 23, t. **4.** Torrey, Fl. U. S. 486; Fl. N. Y. 1. 218. Seringe, DC. Prodr. 2. 605. Redout. Ros. 1. 81, t. **28.** Audubon,

Birds, t. **93**. Hook. Fl. Bor.-Am. 1. 199. Don, Mill. 2. 566. Beck, Bot. 109. Spach, Hist. Veg. 2. 18. Darling. Fl. Cestr. 311. Torr. & Gray, Fl. 1. 458. Eat. & Wr. 307. Nees, Pl. Neuwied, 9. Dietr. 3. 195. Loud. Arb. 2. 753. Tuckerman, l. c. 70 & 90. Curtis, Bot. N. Car. 89. Chapman, 126. Hook. f. Arct. Pl. 290 & 327. Gray, Manual, 158. Crépin, Prim. Monog. Ros. 177 & 418. Regel, Ros. Monogr. 77.

R. Virginiana. DuRoi, Obs. Bot. 21; Harbk. 2. 353. Roessig, Ros. t. **13**. Tratt. Ros. 2. 154.

R. corymbosa. Ehrh. Beitr. 4. 21. Muhl. Cat. 50. Barton, Fl. Philad. 1. 231.

R. Carolinensis & *palustris.* Marsh. Arbust. 135.

R. Pennsylvanica. Michx. Fl. 1. 296, in part. Poir. Dict. 6. 295.

R. Florida. Donn, Cat. Cant. 8 ed. 169.

R. flexuosa. Raf. Préc. Découv. 35; Journ. Bot. 4. 268. Poir. Suppl. 5. 778. Seringe, DC. Prodr. 2. 623. Don, Mill. 2. 585. Dietr. 3. 204. Crépin, l. c. 379.

R. enneaphylla. Raf. ll. cc. Poir. Suppl. 5. 778. Tratt. Ros. 2. 228.

? *R. glandulosa* & *elegans.* Raf. Ann. Sci. Phys. 5. 214. Seringe, l. c. Don. l. c. Dietr. l. c. Crépin, l. c. 377.

R. majalis, var. γ. Loisel. in Nouv. Duham. 7. 16.

? *R. erratina.* Bosc; Poir. Suppl. 4. 714. Lindl. Ros. 136. Raf. Ann. Sci. Phys. 5. 215. Tratt. Ros. 1. 35 & 2. 185.

R. Hudsoniana. Thory in Redout. Ros. 1. 95, t. **35**. Tratt. Ros. 2. 147.

R. Sprengeliana & *Rafinesquejana.* Tratt. Ros. 2. 163 & 234.

R. cinnamomea, var. *gemella.* Seringe, DC. Prodr. 2. 605; fide Crépin, l. c. 189.

R. Durandii. Crépin, Bull. Bot. Soc. Fr. 22 (Compt. Rend.) 19; Prim. Monog. Ros. 407.

R. Kamtschatica. Gray, Proc. Am. Acad. 8. 382.

R. foliolosa. Nutt.; Torr. & Gray, Fl. 1. 460. Walp. Rep. 2. 12. Dietr. 3. 195. Gray, Pl. Lindh. 180; Hall's Pl. Texas, 9. Torrey, Sitgr. Rep. 175. Young, Fl. Texas, 256. Crépin, l. c. 431. To *R. lucida* by Regel, Ros. Monogr. 17.

R. gymnocarpa. Nutt.; Torr. & Gray, Fl. 1. 461; Pac. R. Rep. 2. 121. Walp. Rep. 2. 12. Dietr. 3. 195. Presl, Epimel. Bot. 203. Durand, Pl. Pratten. 87. Torrey, Pac. R. Rep. 4. 85; Mex. Bound. 64, t. **21**; Bot. Wilkes, 293. Cooper, Pac. R. Rep. 12. 30 & 60. Bolander, Proc. Calif. Acad. 3. 80; Cat. 11. Gray, Proc. Am. Acad. 8. 382. Crépin, Prim. Monog. Ros. 433. Brew. & Wats. Bot. Calif. 1. 187. To *R. pimpinellifolia* by Regel, l. c. 23.

Var. **pubescens.** Watson, Bot. Calif. 1. 187.

R. LÆVIGATA. Michx. Fl. 1. 295. Poir. Dict. 6. 295. Persoon, 2. 49. Raf. Ann. Sci. Phys 5. 216. Elliott, 1. 566. Tratt. Ros. 2. 184. Spreng. Syst. 2. 556. Seringe, DC. Prodr. 2. 600. Don, Mill. 2. 584. Torr. & Gray, Fl. 1. 461. Eat. & Wr. 309. Chapman, 126. Wood, Cl.-Book, 334; Bot. & Fl. 109. Crépin, l. c. 359 & 438, with syn.; Bull. Soc. Bot. Belg. 16. 28.

R. Cherokeensis. Donn, Cat. Cant. 8 ed. 170.

R. Sinica. Hook. Bot. Mag. t. **2847**. Lindl. Bot. Reg. t. **1922**. Regel, Ros. Monogr. 43, & syn.

R. lucida. Ehrh. Beitr. 4. 22. Moench, Meth. 687. Willd. Arb. 310; Spec. 2. 1068. Roth, Cat. Bot. 2. 94. Poir. Dict. 6. 294. Persoon, 2. 48. Jacq. Fragm. 71, t. **107, f. 3**. Nouv. Duham. 7. 17, t. **7, f. 3**. Redout. Ros. 1. 45, t. **11**. Raf. Ann. Sci. Phys. 5. 216. Lindl. Ros. 17. Tratt. Ros. 2. 152. Guimp. Otto & Hayne, t. **93**. Spreng. Syst. 2. 547. Seringe, DC. Prodr. 2. 602. Hook. Fl. Bor.-Am. 1. 199. Don, Mill. 2. 565. Spach, Hist. Veg. 2. 20. Crépin, Prim. Monog. Ros. 179 & 421; Bull. Soc. Bot. Belg. 16. 26. Regel, Ros. Monogr. 16.

? *R. Rapa.* Bosc; Poir. Suppl. 4. 710. Redout. Ros. 1. 7, **t. 2.** Lindl. Ros. 15. Spreng. Syst. 2. 547. Seringe, DC. Prodr. 2. 602. Don, Mill. 2. 565. Spach, Hist. Veg. 2. 21.

R. MICRANTHA, Smith. Bigel. Fl. Bost. 2 ed. 197. Eat. & Wr. 398. Wood, Class-Book, 335. Gray, Manual, 159.

R. MULTIFLORA, Thunb. Wood, Cl.-Book, 334.

R. nitida. Willd. Enum. 544. Pursh, 344. Poir. Suppl. 4. 711. Raf. Ann. Sci. Phys. 5. 212. Lindl. Ros. 13, **t. 2.** Tratt. Ros. 2. 177. Torrey, Fl. U. S. 485. Spreng. Syst. 2. 547. Seringe, DC. Prodr. 2. 603. Hook. Fl. Bor.-Am. 1. 198. Don, Mill. 2. 565. Beck, Bot. 109. Spach, Hist. Veg. 2. 21. Torr. & Gray, Fl. 1. 459. Eat. & Wr. 397. Dietr. 3. 195. Loud. Arb. 2. 752, **f. 477.** Gray, Manual, 1 ed. 127. Crépin, Prim. Monog. Ros. 188 & 424. Regel, Ros. Monogr. 18. To *R. lucida* (i. e. *R. parviflora*) by Gray, Manual, 158.

R. rubrispina. Bosc, Dict. Agr. 246. Poir. Suppl. 4. 715. Tratt. Ros. 2. 179. Seringe, DC. Prodr. 2. 623. Don, Mill. 2. 586.

R. blanda. Pursh, 334 & 749.

? *R. lucida.* Beck, Bot. 109.

R. Redoutea. Thory, Redout. Ros. 1. 103, **t. 36.** Tratt. Ros. 2. 176.

R. Nutkana. Presl, Epimel. Bot. 203. Walp. Ann. 3. 854. Crépin, Prim. Monog. Ros. 400; Bull. Soc. Bot. Belg. 16. 26.

R. cinnamomea. Hook. Fl. Bor.-Am. 1. 200. Torr. & Gray, Fl. 1. 459. Seem. Bot. Herald, 52. Richard. Arct. Exped. 427. Cooper, Pac. R. Rep. 12. 30. Hook. f. Arct. Pl. 290 & 327. Rothr. Fl. Alask. 446.

R. fraxinifolia. Hook. Fl. Bor.-Am. 1. 199. Torr. & Gray, Fl. 1. 460. Eat. & Wr. 398. Newberry, Pac. R. Rep. 6. 73. Cooper, same, 12. 60. Watson, King's Rep. 5. 92. Porter, Fl. Col. 38.

R. macrocarpa. Nutt.; Raf. Med. Bot. 2. 258.

R. blanda (?). Gray, Proc. Am. Acad. 8. 382. Torrey, Bot. Wilkes, 203. Watson, Pl. Wheeler, 8. Brew. & Wats. Bot. Calif. 1. 187.

? *R. Aleutensis.* Crépin, Bull. Soc. Bot. Belg. 13. 40 & 16. 25; Prim. Monog. Ros. 409. To *R. alpina*, Linn., by Regel, l. c. 13.

R. Woodsii. Regel, l. c. 15, including *R. amblyotis*, Meyer.

R. parviflora. Ehrh. Beitr. 4. 21. DuRoi, Harbk. 2. 354. Willd. Arb. 309; Spec. 2. 1068. Poir. Dict. 6. 296. Persoon, 2. 48. Pursh, 344. Raf. Ann. Sci. Phys. 5. 212. Elliott, 1. 563. Lindl. Ros. 20. Redout. Ros. 2. 73, **t. 94.** Tratt. Ros. 2. 157. Spreng. Syst. 2. 547. Seringe, DC. Prodr. 2. 604. Don, Mill. 2. 565. Beck, Bot. 109. Hook. Comp. Bot. Mag. 1. 25. Spach, Hist. Veg. 2. 19. Darling. Fl. Cestr. 310. Eat. & Wr. 397. Loud. Arb. 2. 753, **f. 479.** Crépin, Prim. Monog. Ros. 178 & 427.—The synonymy of this species is much confused with that of *R. lucida* & *nitida.*

R. Carolina. Linn. Spec. 492 ?; fide Crépin, l. c. 420. Walter, 149. DuRoi, Harbk. 2. 355.

R. humilis. Marsh. Arbust. 136.

R. Pennsylvanica. Wangenh. Amer. 113.

R. Caroliniana. Michx. Fl. 1. 295. Poir. Dict. 6. 294.

R. Lyonii. Pursh, 345. Poir. Suppl. 4. 714. Raf. Ann. Sci. Phys. 5. 217. Lindl. Ros. 134. Tratt. Ros. 2. 159. Spreng. Syst. 2. 547. Seringe, DC. Prodr. 2. 606. Don, Mill. 2. 585. Eat. & Wr. 399. Dietr. 3. 204.

R. lucida. Pursh, 344. Elliott, 1. 563. Torrey, Fl. U. S. 485; Fl. N. Y. 1. 218; Nicol. Rep. 149 ?; Emory's Rep. 408 ? Torr. & Gray, Fl. 1. 458. Eat. & Wr. 397. Dietr. 3. 195. Loud. Arb. 2. 752, **f. 476.** Parry, Pl. Minn. 612 ? Engelm. Pl.

Upp. Miss. 191 ? **Curtis, Bot. N. Car. 89. Chapman, 126. Gray, Manual, 158.** Regel, Ros. Monogr. 16.

? *R. globosa, obovata serrulata* & *pusilla.* **Raf. Ann. Sci. Phys. 5. 215–218.** Seringe, DC. Prodr. 2. 610 & 611. **Don, Mill. 2. 570 & 571. Dietr. 3. 198. Crépin,** l. c. 378 & 452.

? *R. acuminata, pratensis* & *riparia.* **Raf.** l. c. 216 & 217. Seringe, l. c. 623. Don, l. c. 585 & 586. **Dietr. 3. 204. Crépin,** l. c. 378.

R. laxa. **Lindl. Ros. 18, t. 3. Spach, Hist. Veg. 2. 20.**

R. Lindleyi. **Spreng. Syst. 2. 647. Seringe, DC. Prodr. 2. 604. Don, Mill.** 2. 565. Dietr. 3. 195. **Loud. Arb. 2. 753.**

R. pisocarpa. Gray, Proc. Am. Acad. 8. 382. Brew. & Wats. Bot. Calif. 1. 187. Referred with doubt to *R. Nutkana,* as var. *microcarpa,* by Crépin, l. c. 405.

R. RUBIGINOSA, Linn. Bigel. Fl. Bost. 2 ed. 197. Torrey, Fl. U. S. 486; Fl. N. Y. 1. 220. Audubon, Birds, **t. 137. Darling. Fl. Cestr. 311. Torr. & Gray, Fl. 1. 461.** Tuckerman, Josselyn's Rarities, 119. **Chapman, 126. Gray, Manual, 159.**

R. suaveolens. **Pursh, 346. Poir. Suppl. 4. 714. Smith in Rees Cyc. Raf. Ann.** Sci. Phys. 5. 218. **Elliott, 1. 566. Tratt. Ros. 2. 81. Seringe, DC. Prodr. 2. 617.** Don, Mill. 2. 578. **Beck, Bot. 110. Eat. & Wr. 398. Loud. Arb. 2. 766.**

R. setigera. Michx. Fl. 1. 295. Poir. Dict. 6. 295. Persoon, 2. 48. Lindl. Ros. 128. **Raf. Ann. Sci. Phys. 5. 213. Elliott, 1. 565. Tratt. Ros. 2. 153. Spreng.** Syst. 2. 556. **Seringe, DC. Prodr. 2. 599. Don, Mill. 2. 584. Torr. & Gray, Fl.** 1. 457; **Pac. R. Rep. 2. 164. Eat. & Wr. 399. Chapman, 125. Gray, Manual,** 158. **Crépin, Prim. Monog. Ros. 388.** To *R. moschata,* Mill., by Regel, l. c. 81.

R. fenestrata. **Donn, Cat. Cant. 8 ed. 170. Tratt. Ros. 2. 187.**

R. rubifolia, var. *fenestralis.* **Lindl. Ros. 123, t. 15. Seringe, DC. Prodr. 2. 599.** Spreng. Syst. 2. 556.

? *R. cursor* & *trifoliata.* **Raf. in Ann. Sci. Phys. 5. 213. Seringe, DC. Prodr.** 2. 610. **Don, Mill. 2. 570. Dietr. 3. 198. Crépin,** l. c. 377.

Var. **tomentosa. Torr. & Gray, Fl. 1. 458.**

R. rubifolia. **R. Brown in Ait. f. Hort. Kew. 3. 260. Pursh, 345. Poir. Suppl.** 4. 714. **Raf. Ann. Sci. Phys. 5. 216. Lindl. Ros. 123. Spreng, Neue Entdeck.** 3. 248; **Syst. 2. 556. Redout. Ros. 3. 71, t. 152. Tratt. Ros. 2. 186. Seringe, DC.** Prodr. 2. 598. **Torrey, Ann. Lyc. N. Y. 2. 198. Beck, Am. Journ. Sci. 1. 14. 113;** Bot. 109. **Don, Mill. 2. 584. Spach, Hist. Veg. 2. 44. Hook. Comp. Bot. Mag.** 1. 25. **Eat. & Wr. 397. Loud. Arb. 2. 776, f. 516.**

R. mutabilis. **Bradbury; James, Long's Exped. 1. 69.**

? *R. Kentuckensis.* **Raf.** l. c., and citations as above.

R. acuminata; parviflora.
Aleutensis; Nutkana.
alpina; blanda, Nutkana.
amblyotis; Nutkana.
Americana & *Arkansana;* blanda.
blanda; acicularis, Californica, nitida, Nutkana.
Bourgeauiana; acicularis.
Carolina & *Caroliniana;* parviflora, Californica.
Carolinensis; Carolina.

R. Cherokeensis; lævigata.
cinnamomea; acicularis, blanda, Californica, Carolina, Nutkana.
corymbosa; Carolina.
cursor; setigera.
dasistema; blanda.
elegans, enneaphylla & *evratina;* Carolina.
Fendleri; Californica.
fenestrata; setigera.
flexuosa & *Florida;* Carolina.

R. foliolosa; Californica.
fraxinifolia; blanda, Californica, Nutkana.
gemella; blanda.
glandulosa; Carolina.
globosa; parviflora.
gymnocarpa; Californica.
Hudsoniana; Carolina.
humilis; parviflora.
Kamtschatica; Durandii.
Kentuckensis; setigera.
lævigata; blanda.
laxa, Lindleyi & Lyonii; parviflora.
lucida; foliolosa, nitida, parviflora.
lutescens; blanda.
macrocarpa; Nutkana.
majalis; acicularis, Carolina.
Maximiliani; Californica.
moschata & mutabilis; setigera.
nivea; blanda.
Nutkana; pisocarpa.
obovata; parviflora.
palustris; Carolina.
R. parviflora & pendulina; blanda.
Pennsylvanica; blanda, Carolina, parviflora.
pimpinellifolia; blanda, gymnocarpa.
pratensis & pusilla; parviflora.
Raffinesquejana; Carolina.
Rafinesquii; blanda.
Rapa; lucida.
Redoutea; nitida.
riparia; parviflora.
rubifolia; setigera.
rubrispina; nitida.
Sayi; acicularis.
serrulata; parviflora.
Sinica; lævigata.
Solandri & stricta; blanda.
Sprengeliana; Carolina.
suaveolens; rubiginosa.
trifoliata; setigera.
Virginiana; Carolina.
Woodsii; blanda, Californica, Nutkana.

RUBUS arcticus. Linn. Spec. 494. See syn. in Ledeb. Fl. Ross. 2. 70; Trautv. & Mey. Fl. Ochot. 34; Pritzel, Index Icon. Bot. 952. — Ait. Hort. Kew. 2. 219. Willd. Spec. 2. 1089. Pursh, 349. Schrank, Pfl. Lab. 26. Spreng. Syst. 2. 52. Seringe, DC. Prodr. 2. 565. Spreng. Syst. 2. 532. Cham. & Schlecht. Linnæa, 2. 18. Hook. Fl. Bor.-Am. 1. 182. E. Meyer, Pl. Lab. 79. Don, Mill. 2. 538. Torr. & Gray, Fl. 1. 451. Eat. & Wr. 400. Seem. Bot. Herald, 29 & 52. Richard. Arct. Exped. 427. Hook. f. Arct. Pl. 289 & 325. Pl. Bourgeau, 256. Rothr. Fl. Alask. 445. Maximowicz, Bull. Acad. Petersb. 17. 148 (Mélang. Biol. 8. 370). Focke, Batograph. Abhandl. in Abhandl. Naturw. Ver. Brem. 4. 147 & 156.

Var. **grandiflorus.** Ledeb. Fl. Ross. 2. 70. Torr. & Gray, Fl. 1. 452.

R. acaulis. Michx. Fl. 1. 298. Poir. Dict. 6. 237. Persoon, 2. 52. Seringe, DC. Prodr. 2. 565. Hook. Fl. Bor.-Am. 1. 182. Don, Mill. 2. 539. Beck, Bot. 104. Schlecht. in Linnæa, 10. 98. Hook. & Arn. Bot. Beechey, 123. Eat. & Wr. 400.

R. pistillatus. Smith, Exot. Bot. 2. 53, t. **86**. Ait. f. Hort. Kew. 3. 270. Pursh, 349. Poir. Suppl. 4. 695. Richard. Frankl. Journ. 11. Spreng. Syst. 2. 532.

R. propinquus. Richard. Frankl. Journ. 2 ed. 19.

Manteia acaulis. Raf. Sylv. Tellur. Mant. 161.

R. Canadensis. Linn. Spec. 494. Marsh. Arbust. 138. Willd. Spec. 2. 1085. Poir. Dict. 6. 243. Persoon, 2. 51. Pursh, 347. Spreng. Syst. 2. 532. Seringe, DC. Prodr. 2. 564. Hook. Fl. Bor.-Am. 1. 180. Don, Mill. 2. 538. Beck, Bot. 103. Torr. & Gray, Fl. 1. 455. Eat. & Wr. 400. Dietr. 3. 173. Torrey, Fl. N. Y. 1. 216. Loud. Arb. 2. 745. Richard. Arct. Exped. 426. Lesqx. Fl. Ark. 359. Gray, Manual, 157. Focke, l. c. 153 & 160.

? *R. arcticus.* Walter, 149.

R. flagellaris. Willd. Enum. 549. Poir. Suppl. 4. 694. Pursh, 347. Schrank, Pfl. Lab. 26. Elliott, 1. 569. Seringe, DC. Prodr. 2. 559. Don, Mill. 2. 533. Kept distinct by Focke, l. c. 152 & 160.

R. trivialis. Pursh, 347. Bigel. Fl. Bost. 122. Torrey, Fl. U. S. 489. Guimp. Otto & Hayne, **t. 71**. Hook. Fl. Bor.-Am. 1. 180. Darling. Fl. Cestr. 308.

R. procumbens. Muhl. Cat. 52. Barton, Fl. Philad. 1. 233.

R. trivialis, var. γ. Hook. Comp. Bot. Mag. 1. 25.

R. Chamæmorus. Linn. Fl. Lapp. 163, **t. 5, f. 1**; Spec. 494. See syn. in Ledeb. Fl. Ross. 2. 71; Trautv. & Mey. Fl. Ochot. 34; Maximowicz, l. c. 147 (374); Pritzel, Index Icon. 957. — Willd. Spec. 2. 1090. Michx. Fl. 1. 298. Poir. Dict. 6. 236. Pursh, 349. Schrank, Pfl. Lab. 26. Richard. Frankl. Journ. 11; Arct. Exped. 427. Torrey, Fl. U. S. 490. Spreng. Syst. 2. 532. Seringe, DC. Prodr. 2. 565. Cham. & Schlecht. in Linnæa, 2. 7. Hook. Fl. Bor.-Am. 1. 183. Meyer, Pl. Lab. 80. Bongard, Veg. Sitch. 132. Don, Mill. 2. 539. Beck, Bot. 104. Spach, Hist. Veg. 1. 458. Audubon, Birds, **t. 193**. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 451. Eat. & Wr. 401. Bigel. Fl. Bost. 3 ed. 214. Dietr. 3. 174. Seem. Bot. Herald, 29 & 52. Lange, Pl. Groenl. 134. Hook. f. Arct. Pl. 290. Rothr. Fl. Alask. 445. Gray, Manual, 157. Matthew, Fl. Acad. 8. Focke, Batogr. Abhandl. 146.

R. cuneifolius. Pursh, 347. Poir. Suppl. 4. 696. Nutt. Genera, 1. 308. Elliott, 1. 568. Torrey, Fl. U. S. 488; Fl. N. Y. 1. 217. Spreng. Syst. 2. 529. Seringe, DC. Prodr. 2. 563. Don, Mill. 2. 537. Beck, Bot. 103. Darling. Fl. Cestr. 306. Torr. & Gray, Fl. 1. 456. Eat. & Wr. 400. Dietr. 3, 172. Loud. Arb. 2. 745. Curtis, Bot. N. Car. 88. Chapman, 125. Gray, Manual, 158. Focke, l. c. 152.

R. parvifolius. Walter, 149. Muhl. Cat. 50. Tratt. Ros. 3. 49.

R. Dalibarda. Linn. Spec. 2. ed. 708. Smith, Pl. Icon. **t. 20**. Ait. Hort. Kew. 2. 211. Lam. Ill. 2. 549, **t. 441**. Willd. Spec. 2. 1090. Benth. & Hook. Gen. Pl. 1. 617. Focke, Batogr. Abhandl. 145.

Dalibarda repens. Linn. Spec. 491. Poir. Dict. 6. 250. Persoon, 2. 53. Pursh, 350. Bigel. Fl. Bost. 2 ed. 202. Torrey, Fl. U. S. 491; Fl. N. Y. 1. 213. Spreng. Syst. 2. 526. DC. Prodr. 2. 568. Hook. Fl. Bor.-Am. 1. 184. Don, Mill. 2. 541. Beck, Bot. 105. Torr. & Gray, Fl. 1. 449. Eat. & Wr. 219. Dietr. 3. 164. Gray, Manual, 156.

Dalibarda violæoides. Michx. Fl. 1. 299, **t. 27**. Ait. f. Hort. Kew. 3. 271. Nestler, Monogr. Potent. 9, **t. 1**.

Dalibarda cordata. Stephan, Act. Soc. Mosc. 1. 92.

R. deliciosus. James, Long's Exped. 2. 193. Torrey, Ann. Lyc. N. Y. 2. 196. Hook. Fl. Bor.-Am. 1. 183. Don, Mill. 2. 539. Torr. & Gray, Fl. 1. 450; Pac. R. Rep. 2. 126. Eat. & Wr. 401. Walp. Rep. 2. 22. Dietr. 3. 175. Loud. Arb. 2. 746, **f. 466**. Gray, Am. Journ. Sci. 2. 33. 411 & 3. 6. 380; Proc. Acad. Philad. 1863, 61. Hook. f. Bot. Mag. **t. 6062**. Porter, Fl. Col. 34. Rothr. Pl. Wheeler, 37. Focke, l. c. 146 & 156.

R. spectabilis. James, Cat. 182.

R. Neo-Mexicanus. Gray, Pl. Wright. 2. 55. Walp. Ann. 4. 659. Torrey, Mex. Bound. 64. To *R. trilobus*, Moç., by Seemann, Bot. Herald, 282.

R. Rœzlii. Regel, Act. Hort. Petrop. 3. 285.

R. hispidus. Linn. Spec. 493. Ait. Hort. Kew. 2. 209. Willd. Spec. 2. 1083. Poir. Dict. 6. 246. Persoon, 2. 51. Pursh, 347. Torrey, Fl. U. S. 489; Fl. N. Y. 1. 217. Spreng. Syst. 2. 530. Torr. & Gray, Fl. 1. 455. Eat. & Wr. 400. Dietr. 3. 173. Loud. Arb. 2. 745. Richard. Arct. Exped. 426. Curtis, Bot. N. Car. 88. Chapman, 125. Gray, Manual, 158. Focke, l. c. 152.

R. obovalis. Michx. Fl. 1. 298. Poir. Dict. 6. 239. Pursh, 349. Torrey, Fl. U. S. 490. Spreng. Syst. 2. 532. Seringe, DC. Prodr. 2. 565. Beck, Bot. 104. Eat. & Wr. 400.

R. obovatus. Elliott, 1. 570. Tratt. Ros. 3. 95. Hook. Fl. Bor.-Am. 1. 180, t. **60**. Don, Mill. 2. 539. Darling. Fl. Cestr. 308.

R. sempervirens. Bigel. Fl. Bost. 2 ed. 201. Eat. & Wr. 400.

Var. **setosus.** Torr. & Gray, Fl. 1. 456.

R. setosus. Bigel. Fl. Bost. 2 ed. 198. Seringe, DC. Prodr. 2. 563. Hook. Fl. Bor.-Am. 1. 179. Don, Mill. 2. 536. Beck, Bot. 103. Eat. & Wr. 400. Loud. Arb. 2. 744.

R. leucodermis. Dougl.; Torr. & Gray, Fl. 1. 454. Walp. Rep. 2. 23. Dietr. 3. 167. Presl, Epimel. Bot. 197. Torrey, Pac. R. Rep. 4. 85. Cooper, same, 12. 30 & 60. Regel, Gartenfl. 19. 353, t. **670**. Watson, King's Rep. 5. 82. Gray, Proc. Am. Acad. 8. 381. Brew. & Wats. Bot. Calif. 1. 172.

R. occidentalis, var. β. Hook. Fl. Bor.-Am. 1. 178. Focke, l. c. 147.

R. glaucifolius. Kellogg, Proc. Calif. Acad. 1. 67.

R. occidentalis. Boland. Cat. 11.

R. neglectus. Peck, Rep. Reg. N. Y. State Univ. 22. 53. Meehan, Torr. Bot. Bull. 1. 36. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 323. Hybrid of *R. strigosus* & *occidentalis*, fide Austin, Torr. Bot. Bull. 1. 31, & Focke, l. c. 156.

R. nivalis. Dougl.; Hook. Fl. Bor.-Am. 1. 181. Don, Mill. 2. 539. Torr. & Gray, Fl. 1. 451. Eat. & Wr. 401. Walp. Rep. 2. 23. Dietr. 3. 174. Focke, Batogr. Abhandl. 148 & 156.—A doubtful species, perhaps a form of *R. strigosus.*

R. Nutkanus. Moçino, Icon. Fl. Mex. ined. t. **291**. Seringe, DC. Prodr. 2. 566. Lindl. Bot. Reg. 16, t. **1368**. Bongard, Veg. Sitch. 131. Sweet, Brit. Fl. Gard. 2 ser. t. **83**. Hook. Fl. Bor.-Am. 1. 183; Bot. Mag. t. **3453**; Lond. Journ. Bot. 6. 220. Don, Mill. 2. 540. Spach, Hist. Veg. 1. 460. Torr. & Gray, Fl. 1. 450. Eat. & Wr. 400. Dietr. 3. 175. Ledeb. Fl. Ross. 2. 72. Loud. Arb. 2. 745, f. **464**. Benth. Pl. Hartw. 308. Presl, Epimel. Bot. 197. Richard. Arct. Exped. 426. Torrey, Pac. R. Rep. 4. 85; Mex. Bound. 64; Bot. Wilkes, 290. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 60. Gray, Am. Journ. Sci. 2. 33. 411; Manual, 156; Proc. Am. Acad. 8. 381. Boland. Proc. Calif. Acad. 3. 80; Cat. 11. Pl. Bourgeau, 256. Rothr. Fl. Alask. 446. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 81; Pl. Wheeler, 8. Porter, Hayd. Rep. 1871, 482; Fl. Col. 34. Coulter, Hayd. Rep. 1872, 765. Focke, l. c. 146 & 156. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 323. Brew. & Wats. Bot. Calif. 1. 171.

Var. **Nuttallii.** Torr. & Gray, l. c. Walp. Rep. 2. 22. Gray, Pl. Fendl. 42.

R. parviflorus. Nutt. Genera, 1. 308. Spreng. Syst. 2. 532. Seringe, DC. Prodr. 2. 565. Don, Mill. 2. 539. Beck, Bot. 104. Eat. & Wr. 401.

Var. **velutinus.** Brewer, Bot. Calif. 1. 172.

R. velutinus. Hook. & Arn. Bot. Beechey, 140. Torr. & Gray, Fl. 1. 450. Dietr. 3. 175. Boland. in Proc. Calif. Acad. 3. 80. Focke, l. c. 147.

R. occidentalis. Linn. Spec. 493. Marshall, Arbust. 138. Walter, 149. Ait. Hort. Kew. 2. 209. Willd. Spec. 2. 1082. Michx. Fl. 1. 297. Poir. Dict. 6. 244. Persoon, 2. 51. Pursh, 346. Bigel. Fl. Bost. 121. Elliott, 1. 568. Richard. Frankl. Journ. 2 ed. 19; Arct. Exped. 426. Torrey, Fl. U. S. 489; Fl. N. Y. 1. 215; Emory's Rep. 408. Spreng. Syst. 2. 530. Seringe, DC. Prodr. 2. 558. Hook. Fl. Bor.-Am. 1. 178, excl. var. Don, Mill. 2. 531. Beck, Bot. 102. Darling. Fl. Cestr. 306. Torr. & Gray, Fl. 1. 453. Eat. & Wr. 400. Dietr. 3. 166. Loud. Arb. 2. 736, f. **451**. Engelm. Pl. Upp. Miss. 191. Curtis, Bot. N. Car. 88. Chapman, 125. Gray, Manual, 157. Focke, Batogr. Abhandl. 147 (with *R. leucodermis* & *R. eriocarpus*, Liebm., as subspecies).

R. Idæus, var. *Americanus.* Torrey, Ann. Lyc. N. Y. 2. 196. Eat. & Wr. 400.

R. odoratus. Linn. Spec. 494. Marsh. Arbust. 138. Ait. Hort. Kew. 2. 210. Moench, Meth. 670. Sims, Bot. Mag. t. **323**. Willd. Spec. 2. 1085. Michx. Fl. 1. 297. Poir. Dict. 6. 247. Persoon, 2. 52. St. Hil. Pl. France, 3, t. **322**. Pursh, 348. Bigel. Fl. Bost. 123. Elliott, 1. 570. Barton, Fl. N. Am. 2. 21, t. **42**. Torrey, Fl. U. S. 490; Fl. N. Y. 1. 213. Spreng. Syst. 2. 532. Seringe, DC. Prodr. 2. 566. Audubon, Birds, t. **123**. Hook. Fl. Bor.-Am. 1. 183. Don, Mill. 2. 539. Beck, Bot. 104. Spach, Hist. Veg. 1. 459. Darling. Fl. Cestr. 309. Torr. & Gray, Fl. 1. 449. Eat. & Wr. 400. Dietr. 3. 175. Loud. Arb. 2. 745, f. **463**. Emerson, Trees of Mass. 428. Richard. Arct. Exped. 426. Curtis, Bot. N. Car. 88. Chapman, 124. Gray, Manual, 156. Traill, Canad. Fl. 25, t. **2**. Focke, Batogr. Abhandl. 146.

R. pedatus. Smith, Icon. Pl. t. **63** (Usteri, Ann. Bot. 12. 43). Willd. Spec. 2. 1088. Poir. Dict. 6. 239. Persoon, 2. 52. Pursh, 349. Hook. Fl. Bor.-Am. 1. 181, t. **61**. Don, Mill. 2. 539. Torr. & Gray, Fl. 1. 452. Eat. & Wr. 400. Dietr. 3. 174. Ledeb. Fl. Ross. 2. 70. Newberry, Pac. R. Rep. 6. 71. Pl. Bourgeau, 256. Rothr. Fl. Alask. 445. Gray, Proc. Am. Acad. 8. 381. Focke, Batogr. Abhandl. 145. Brew. & Wats. Bot. Calif. 1. 172.

Dalibarda pedata. Stephan, Mem. Soc. Mosc. 1. 92. Spreng. Grundz. 516; Syst. 2. 526.

Comaropsis pedata. DC. Prodr. 2. 555. Bongard, Veg. Sitch. 134. Don, Mill. 2. 529. Presl, Epimel. Bot. 196.

Ameton pedatum. Raf. Sylv. Tellur. Mant. 161.

R. saxatilis. Linn. Spec. 494. See syn. in Ledeb. Fl. Ross. 2. 69; Hook. f. Arct. Pl. 289 & 325; Pritzel, Ind. Icon. 957. — Poir. Dict. 6. 237. Spreng. Syst. 2. 532. Seringe, DC. Prodr. 2. 564. Torr. & Gray, Fl. 1. 452. Lange, Pl. Groenl. 134. Maximowicz, Bull. Acad. Petersb. 17. 148 (Mélang. Biol. 8. 375). Focke, Batogr. Abhandl. 146.

R. spectabilis. Pursh, 348, t. **16**. Poir. Suppl. 4. 695. Spreng. Syst. 2. 532. Seringe, DC. Prodr. 2. 559. Cham. & Schlecht. in Linnæa, 2. 6. Hook. Fl. Bor.-Am. 1. 178. Lodd. Bot. Cab. t. **1602**. Bongard, Veg. Sitch. 131. Lindl. Bot. Reg. 17, t. **1424**. Don, Mill. 2. 533. Spach, Hist. Veg. 1. 455. Maund, Bot. Gard. 12, t. **568**. Torr. & Gray, Fl. 1. 454. Eat. & Wr. 400. Dietr. 3. 168. Ledeb. Fl. Ross. 2. 67. Loud. Arb. 2. 741, f. **458**. Presl, Epimel. Bot. 197. Richard. Arct. Exped. 426. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 31 & 60. Rothr. Fl. Alask. 445. Boland. Cat. 11. Maximowicz, Bull. Acad. Petersb. 17. 155 (Mélang. Biol. 8. 386). Gray, Proc. Am. Acad. 8. 381. Torrey, Bot. Wilkes, 291. Focke, l. c. 148. Brew. & Wats. Bot. Calif. 1. 172.

R. stenopetalus. Fisch. Choris Voy. 10. To *R. stellatus* by Bongard, l. c.

Var. **Menziesii.** Watson, Bot. Calif. 1. 172.

R. Menziesii. Hook. Fl. Bor.-Am. 1. 179. Don, Mill. 2. 531. Hook. & Arn. Bot. Beechey, 140. Eat. & Wr. 401. Dietr. 3. 167. Presl, Epimel. Bot. 197. Cooper, Pac. R. Rep. 12. 59.

R. ursinus. Torr. & Gray, Fl. 1. 456, in part.

R. stellatus. Smith, Icon. Pl. t. **64** (Usteri, Ann. Bot. 12. 42). Willd. Spec. 2. 1089. Poir. Dict. 6. 238. Persoon, 2. 52. Pursh, 349. Spreng. Syst. 2. 532. Seringe, DC. Prodr. 2. 565. Cham. & Schlecht. in Linnæa, 2. 8. Hook. Fl. Bor.-Am. 1. 183. Schlecht. in Linnæa, 6. 590. Don, Mill. 2. 539. Spach, Hist. Veg. 1. 459. Torr. & Gray, Fl. 1. 451. Eat. & Wr. 401. Walp. Rep. 2. 23. Dietr. 3. 174. Ledeb. Fl. Ross. 2. 71. Presl, Epimel. Bot. 197. Richard. Arct. Exped. 427. Focke, l. c. 146.

Manteia stellata. Raf. Sylv. Tellur. Mant. 161.

R. strigosus. Michx. Fl. 1. 297. Poir. Dict. 6. 243. Persoon, 2. 51. Pursh, 346. Bigel. Fl. Bost. 122. Richard. Frankl. Journ. 2 ed. 19; Arct. Exped. 426. Torrey, Fl. U. S. 488; Fl. N. Y. 1. 214; Frem. Rep. 89; Bot. Wilkes, 290. Spreng. Syst. 2. 531. Seringe, DC. Prodr. 2. 557. Hook. Fl. Bor.-Am. 1. 177. Don, Mill. 2. 531. Beck, Bot. 102. Torr. & Gray, Fl. 1. 453. Eat. & Wr. 400. Dietr. 3. 160. Loud. Arb. 2. 736. Gray, Pl. Fendl. 42; Pac. R. Rep. 12. 43; Manual, 157; Am. Journ. Sci. 3. 5. 479. Seem. Bot. Herald, 52 & 282. Engelm. Pl. Upp. Miss. 191. Pl. Bourgeau, 256. Porter, Hayd. Rep. 1870, 475; 1871, 482; Fl. Col. 34. Watson, King's Rep. 5. 82 & 420; Pl. Wheeler, 8. Coulter, Hayd. Rep. 1872, 765. Rothr. Pl. Wheeler, 37.

R. Pennsylvanicus. Poir. Dict. 6. 246. Persoon, 2. 51.

R. Idæus. Pursh, 346. Nutt. Genera, 1. 308. Schrank, Pfl. Lab. 26. Torrey, Fl. U. S. 487. Meyer, Pl. Lab. 78. Beck, Bot. 102. Wood, Cl.-Book, 340; Bot. & Fl. 105. Gray, Am. Journ. Sci. 2. 33. 411.

R. Idæus, var. *Canadensis.* Richard. Frankl. Journ. 11.

R. borealis. Spach; fide Focke, l. c. 147.

R. Idæus, var. *strigosus.* Maximowicz, Bull. Acad. Petersb. 17. 161 (Mélang. Biol. 8. 394), with syn. Focke, l. c. 147 & 156.

R. triflorus. Richard. Frankl. Journ. 2 ed. 19; Arct. Exped. 427. Hook. Fl. Bor.-Am. 1. 181, **t. 62.** Don, Mill. 2. 538. Torr. & Gray, Fl. 1. 452. Torrey, Fl. N. Y. 1. 214. Dietr. 3. 174. Gray, Proc. Acad. Philad. 1863, 61; Manual, 157. Pl. Bourgeau, 256. Maxim. l. c. 148 (375). Focke, l. c. 146 & 156.

R. saxatilis, var. *Canadensis.* Michx. Fl. 1. 298. Pursh, 349. Richard. Frankl. Journ. 11. Torrey, Fl. U. S. 490. Beck, Bot. 104.

R. saxatilis, var. *Americanus.* Persoon, 2. 52. Seringe, l. c. 565. Don, l. c.

? *R. flagellaris.* Schrank, Pfl. Lab. 26. Meyer, Pl. Lab. 78.

Cylactis montana. Raf. Am. Journ. Sci. 1. 1. 377. Spreng. Neue Entdeck. 2. 207. Seringe, DC. Prodr. 2. 568.

Cylactis lyncemontana. Raf. Journ. Phys. 1819, 97.

R. saxatilis. Bigel. Fl. Bost. 2 ed. 201. Eat. & Wr. 400.

R. Canadensis. Torrey, Fl. U. S. 488.

R. ægopodioides. Seringe, DC. Prodr. 2. 565. Beck, Bot. 104.

R. mucronatus. Seringe, l. c. excl. descr. Hook. Fl. Bor.-Am. 1. 182. Don, Mill. 2. 538. Eat. & Wr. 401. Dietr. 3. 174.

R. trivialis. Michx. Fl. 1. 296. Poir. Dict. 6. 241. Persoon, 2. 51. Ait. f. Hort. Kew. 3. 269. Elliott, 1. 569. Don, Mill. 2. 537. Hook. Comp. Bot. Mag. 1. 25, excl. var. γ. Torr. & Gray, Fl. 1. 456; Pac. R. Rep. 2. 164. Eat. & Wr. 400. Nees, Pl. Neuwied, 8. Gray, Pl. Thurb. 301; Manual, 158; Hall's Pl. Texas, 9. Torrey, Pac. R. Rep. 4. 85; Mex. Bound. 64. Curtis, Bot. N. Car. 88. Chapman. 125. Focke, l. c. 152.

R. hispidus. Marshall, Arbust. 137. Walter, 149. Seringe, DC. Prodr. 2. 564, excl. syn. Don, Mill. 2. 537. Beck, Bot. 103.

R. flagellaris. Hook. Comp. Bot. Mag. 1. 24.

R. ursinus. Cham. & Schlecht. in Linnæa, 2. 11. Don, Mill. 2. 540. Torr. & Gray, Fl. 1. 456, in part. Walp. Rep. 2. 23. Dietr. 3. 175. Benth. Bot. Sulph. 14. Presl, Epimel. Bot. 197. Torrey, Pac. R. Rep. 4. 85 & 7. 11; Mex. Bound. 64. Newberry, Pac. R. Rep. 6. 71. Boland. Cat. 11. Focke, Batogr. Abhandl. 153 & 160. Brew. & Wats. Bot. Calif. 1. 172.

R. vitifolius. Cham. & Schlecht. l. c. 10. Don, Mill. 2. 540. Torr. & Gray, Fl. 1. 450. Walp. Rep. 2. 22. Dietr. 3. 175. Torrey, Pac. R. Rep. 4. 85. Anderson, Cat. Pl. Nev. 120. Boland. Cat. 11. Focke, l. c. 148 & 156.

R. macropetalus. Dougl.; Hook. Fl. Bor.-Am. 1. 178, t. **59**. Don, Mill. 2. 531. Hook. & Arn. Bot. Beechey, 140 & 338. Torr. & Gray, Fl. 1. 457. Eat. & Wr. 401. Walp. Rep. 2. 23. Dietr. 3. 167. Loud. Arb. 2. 746, f. **465**. Presl, Epimel. Bot. 197. Torrey, Pac. R. Rep. 4. 85; Bot. Wilkes, 291. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 30 & 60. Bolander, Proc. Calif. Acad. 3. 80; Cat. 11. Gray, Proc. Am. Acad. 8. 382. Focke, l. c. 148.

R. villosus. Ait. Hort. Kew. 2. 210. Willd. Spec. 2. 1085. Michx. Fl. 1. 297. Poir. Dict. 6. 243. Persoon, 2. 51. Pursh, 346. Bigel. Fl. Bost. 122; Med. Bot. 2. 160, t. **38**. Barton, Mat. Med. t. **39**. Nutt. Genera, 1. 308. Elliott, 1. 567. Torrey, Fl. U. S. 487; Fl. N. Y. 1. 215; Emory's Rep. 408. Spreng. Syst. 2. 529. Seringe, DC. Prodr. 2. 563. Audubon, Birds, t. **29** & **128**. Hook. Fl. Bor.-Am. 1. 179. Don, Mill. 2. 537. Beck, Bot. 103. Darling. Fl. Cestr. 307. Lindl. Fl. Med. 227. Torr. & Gray, Fl. 1. 454. Eat. & Wr. 400. Dietr. 3. 173. Richard. Arct. Exped. 426. Engelm. Pl. Upp. Miss. 191. Gray, Pac. R. Rep. 12. 43; Manual, 157. Curtis, Bot. N. Car. 88. Chapman, 125. Focke, l. c. 153 & 160.

R. fruticosus. Marsh. Arbust. 137. Walter, 149.

R. argutus. Link, Enum. 2. 60. Seringe, DC. Prodr. 2. 563. Don, Mill. 2. 537. Loud. Arb. 2. 744.

Var. **frondosus.** Torrey, Fl. U. S. 487; Fl. N. York, 1. 215. Torr. & Gray, Fl. 1. 454. Walp. Rep. 2. 23. Gray, Manual, 157.

R. inermis. Willd. Enum. 549? Pursh, 348. Poir. Suppl. 4. 694. Spreng. Syst. 2. 532. Eat. & Wr. 400. Focke, l. c. 155.

R. frondosus. Bigel. Fl. Bost. 2 ed. 199. Beck, Bot. 103. Eat. & Wr. 400.

R. flagellaris, var. *inermis.* Seringe, DC. Prodr. 2. 559.

R. suberectus. Hook. Fl. 1. 179. Don, Mill. 2. 534, in part. Eat. & Wr. 401.

Var. **humi[illegible]us.** Torr. & Gray, Fl. 1. 455. Torrey, Fl. N. Y. 1. 215. Walp. Rep. 2. 23. [illegible]v, Manual, 157.

? *R. E[illegible] floridus.* Tratt. Ros. 63 & 73. Seringe, DC. Prodr. 2. 564 & 566. Don, Mill. 2. 538 & 539.

R. acaulis; arcticus.
ægopodioides; triflorus.
arcticus; Canadensis.
argutus; villosus.
borealis; strigosus.
Canadensis; triflorus.
Enslenii; villosus.
eriocarpus; occidentalis.
flagellaris; Canadensis, triflorus, trivialis, villosus.
floridus, frondosus & *fruticosus;* villosus.
glaucifolius; leucodermis.
hispidus; trivialis.
Idæus; occidentalis, strigosus.
inermis; villosus.
leucodermis; occidentalis.
macropetalus; ursinus.
Menziesii; spectabilis.
mucronatus; triflorus.
Neo-Mexicanus; deliciosus.

R. obovalis & *obovatus;* hispidus.
occidentalis; leucodermis, neglectus.
parviflorus; Nutkanus.
parvifolius; cuneifolius.
Pennsylvanicus; strigosus.
pistillatus; arcticus.
procumbens; Canadensis.
propinquus; arcticus.
Rœzlii; deliciosus.
saxatilis; triflorus.
sempervirens & *setosus;* hispidus.
spectabilis; deliciosus.
stenopetalus; spectabilis.
strigosus; neglectus, nivalis.
suberectus; villosus.
trilobus; deliciosus.
trivialis; Canadensis.
ursinus; spectabilis.
velutinus; Nutkanus.
vitifolius; ursinus.

SIBBALDIA procumbens. Linn. Spec. 284. See syn. in Ledeb. Fl. Ross. 2. 32; Pritzel, Ind. Icon. 1026. — Pursh, 211. Nutt. Genera, 1. 207. Roem. & Schult. Syst. 6. 769. Torrey, Fl. U. S. 350; Frem. Rep. 89. DC. Prodr. 2. 587. Cham. & Schlecht. in Linnæa, 2. 28. Hook. Fl. Bor.-Am. 1. 196. Don, Mill. 2. 562. Beck, Bot. 108. Torr. & Gray, Fl. 1. 433. Eat. & Wr. 424. C. A. Meyer in Ruprecht, Beitr. Pfl. Russ. 6. 44. Oakes, Hovey's Mag. 13. 217. Engelm. Pl. Upp. Miss. 191. Lange, Pl. Groenl. 134. Aschers. Fl. Lab. in Regensb. Flora, 43. 370. Hook. f. Arct. Pl. 289. Gray, Am. Journ. Sci. 3. 33. 411; Proc. Acad. Philad. 1863, 61; Manual, 153. Rothr. Fl. Alask. 445; Pl. Wheeler, 37. Porter, Hayd. Rep. 1870, 475; 1871, 481; Fl. Col. 35. Brew. & Wats. Bot. Calif. 1. 180.

Potentilla procumbens, De Clairv. Benth. & Hook. Gen. Pl. 1. 671. Baillon, Hist. Pl. 1. 371, **f. 423-427.** Wood, Bot. & Fl. 107. Watson, King's Rep. 5. 89.

SPIRÆA Aruncus. Linn. Spec. 490. See syn. in Ledeb. Fl. Ross. 2. 16; Trautv. & Mey. Fl. Ochot. 32. [Pall. Fl. Ross. 1. 39, **t. 26.**] — Michx. Fl. 1. 294, excl. var. Poir. Dict. 7. 355. Muhl. Cat. 51. Elliott, 1. 561. Cambess. Monog. Spir. 43, **t. 15, f. 2** (Ann. Sci. Nat. 1. 1. 374). Hook. Fl. Bor.-Am. 1. 173; Comp. Bot. Mag. 1. 24. Bongard, Veg. Sitch. 131. Torr. & Gray, Fl. 1. 417. Eat. & Wr. 441. Torrey, Fl. N. Y. 1. 199; Bot. Wilkes, 286. Cooper, Pac. R. Rep. 12. 59. Gray, Mem. Am. Acad. 6. 386; Manual, 150. Lesqx. Fl. Ark. 358. Chapman, 121. Rothr. Fl. Alask. 485. Hussey, Torr. Bot. Bull. 6. 15. Brew. & Wats. Bot. Calif. 1. 170.

S. Aruncus, var. *Americana*. Persoon, 2. 46. Pursh, 343. Torrey, Fl. U. S. 482; Ann. Lyc. N. Y. 2. 194. Seringe, DC. Prodr. 2. 545. Don, Mill. 2. 520. Beck, Bot. 99.

S. betulifolia. Pallas, Fl. Ross. 1. 33, **t. 16.** See syn. in Ledeb. Fl. Ross. 2. 14; Trautv. & Mey. l. c. 31. — Pursh, 342. Cambess. l. c. 34 (368), **t. 27.** Hook. Fl. Bor.-Am. 1. 172; Lond. Journ. Bot. 6. 217. Don, Mill. 2. 519. Torr. & Gray, Fl. 1. 414. Eat. & Wr. 441. Lond. Arb. 2. 725. Seem. Bot. Herald, 28. Richard. Arct. Exped. 426. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 52. Hook. f. Arct. Pl. 289. Pl. Bourgeau, 256. Rothr. Fl. Alask. 445. Porter, Hayd. Rep. 1871, 481. Coulter, same, 1872, 764. Gray, Proc. Am. Acad. 8. 381. Torrey, Bot. Wilkes, 286. Brew. & Wats. Bot. Calif. 1. 169.

S. chamædrifolia, var. *media*. Pursh, 342. Cambess. l. c. 28 (362). Seringe, DC. Prodr. 2. 542. Hook. Fl. Bor.-Am. 1. 171. Hook. & Arn. Bot. Beechey, 123.

S. corymbosa. Raf. Préc. Découv. 36; Desv. Journ. Bot. 1814, 168; New Flora, 3. 70. Poir. Suppl. 5. 222. Lodd. Bot. Cab. **t. 671.** Torrey, Fl. U. S. 482. Seringe, DC. Prodr. 2. 544. Don, Mill. 2. 519. Beck, Bot. 99. Spach, Hist. Veg. 1. 438. Torr. & Gray, Fl. 1. 414. Eat. & Wr. 440. Dietr. 3. 126. Loud. Arb. 2. 728. Gray, Manual, 149.

S. chamædrifolia. Cham. & Schlecht. in Linnæa, 2. 2, fide same, l. c. 6 [illegible]. Eat. & Wr. 440. Richard. Arct. Exped. 426. Hook. f. Arct. Pl. 289, in part.

S. chamædrifolia, var. **β.** Hook. Fl. Bor.-Am. 1. 171. Hook. & Arn. Bot. Beechey, 123.

S. ostryfolia & repens. Raf. New Flora, 3. 69 & 70.

S. betulifolia, var. *corymbosa*. Engelm. Pl. Upp. Miss. 190.

Var. **rosea.** Gray, Proc. Am. Acad. 8. 381. Coulter, Hayd. Rep. 1872, 764.

S. cæspitosa. Nutt.; Torr. & Gray, Fl. 1. 418. Walp. Rep. 2. 51. Dietr. 3. 128. Gray, Pl. Fendl. 40; Pl. Wright. 1. 68; Ives's Rep. 11. Torrey, Pac. R. Rep. 4. 83; Mex. Bound. 63. Newberry, Pac. R. Rep. 6. 71. Porter, Hayd. Rep. 1870, 475; 1871, 481. Watson, King's Rep. 5. 81; Pl. Wheeler, 8. Brew. & Wats. l. c. 170.

Var. **elatior.** Watson, King's Rep. 5. 81.

S. Douglasii. Hook. Fl. Bor.-Am. 1. 172; Bot. Mag. **t. 5151.** Don, Mill. 2. 520. Raf. New Flora, 3. 68. Torr. & Gray, Fl. 1. 415. Eat. & Wr. 440. Walp. Rep. 2. 50. Dietr. 3. 126. Torrey, Frem. Rep. 314; Bot. Wilkes, 286. Fl. Serres, 2, **t. 2.** Paxton, Mag. Bot. 12. 195, **t.**; Fl. Gard. 2. 85, **f. 178.** Revue Hort. 1846, **t. 6.** Presl, Epimel. Bot. 195. Richard. Arct. Exped. 426. Durand, Pl. Pratten. 87. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 32 & 59. Pepin, Rev. Hort. 1862, 17. Wood, Bot. & Fl. 103. Gray, Proc. Am. Acad. 8. 381. Brew. & Wats. Bot. Calif. 1. 169.

Var. **Nobleana.** Watson, Bot. Calif. 1. 169.

? *S. cuneifolia.* Raf. New Flora, 3. 67.

S. Nobleana. Hook. Bot. Mag. **t. 5169.** Lemaire, Ill. Hort. 8, **t. 286.** Walp. Ann. 7. 852.

Var. **Menziesii.** Presl, Epimel. Bot. 195. Brew. & Wats. Bot. Calif. 1. 169.

S. Menziesii. Hook. Fl. Bor.-Am. 1. 173; Lond. Journ. Bot. 6. 218. Don, Mill. 2. 520. Torr. & Gray, Fl. 1. 415. Eat. & Wr. 440. Walp. Rep. 2. 50. Dietr. 3. 126. Cooper, Pac. R. Rep. 12. 59. Gray, l. c. Torrey, Bot. Wilkes, 286.

S. discolor. Pursh, 342. Poir. Suppl. 5. 222. Cambess. Monog. Spir. 41 (Ann. Sci. Nat. 1. 374). Spreng. Syst. 2. 502. Seringe, DC. Prodr. 2. 545. Don, Mill. 2. 520. Eat. & Wr. 441. Presl, Epimel. Bot. 195. Brew. & Wats. l. c. 1. 170.

Var. **ariæfolia.** Watson, Bot. Calif. 1. 170.

S. ariæfolia. Smith, Rees Cyc. Seringe, DC. Prodr. 2. 544. Hook. Fl. Bor.-Am. 1. 173; Lond. Journ. Bot. 6. 217. Lindl. Bot. Reg. 16, **t. 1365.** Don, Mill. 2. 520. Spach, Hist. Veg. 1. 432. Hook. & Arn. Bot. Beechey, 338. Torr. & Gray, Fl. 1. 416. Dietr. 3. 127. Loud. Arb. 2. 731, **f. 446, 447.** Benth. Pl. Hartw. 309. Gray, Pl. Fendl. 40; Proc. Am. Acad. 8. 381. Richard. Arct. Exped. 426. Torrey, Pac. R. Rep. 4. 83; Mex. Bound. 63; Bot. Wilkes, 286. Newberry, Pac. R. Rep. 6. 71. Cooper, same, 12. 30 & 59. Bolander, Proc. Calif. Acad. 3. 79; Cat. 10. Wood, Bot. & Fl. 103.

Var. **dumosa.** Watson, l. c.

S. discolor. Torrey, Ann. Lyc. N. Y. 2. 194. Gray, Am. Journ. Sci. 2. 33. 411.

Schizonotus discolor. Raf. New Flora, 3. 75.

S. ariæfolia, var. *discolor.* Torr. & Gray, Fl. 1. 416.

S. dumosa. Nutt.; Hook. in Lond. Journ. Bot. 6. 217. Gray, Pl. Fendl. 40; Proc. Acad. Philad. 1863, 61. Torrey, Stansb. Rep. 387, **t. 4**; Mex. Bound. 63. Durand, Fl. Utah, 163. Anderson, Cat. Pl. Nev. 120. Porter, Hayd. Rep. 1870, 475; Fl. Col. 33. Watson, King's Rep. 5. 80. Coulter, Hayd. Rep. 1872, 764. Rothr. Pl. Wheeler, 37.

S. lobata. Jacquin, Hort. Vindob. 1. 38, **t. 88.** Murray, Syst. 472. Willd. Spec. 2. 1002; Enum. 542. Michx. Fl. 1. 294. Poir. Dict. 7. 358. Persoon, 2. 47. Pursh, 343. Elliott, 1. 561. Cambess. l. c. 49 (383). Torrey, Fl. U. S. 483. Spreng. Syst. 2. 503. Seringe, DC. Prodr. 2. 545. Don, Mill. 2. 521. Beck, Bot. 90. Spach, Hist. Veg. 1. 445. Torr. & Gray, Fl. 1. 416. Eat. & Wr. 441. Dietr. 3. 127. Chapman, 121. Regel, Gartenfl. 1863, 145, **t. 397.** Gray, Manual, 149.

S. palmata. Linn. f. Suppl. 262, not Thunb.

S. Kamtschatica. Pallas, Fl. Ross. 1. 41, **t. 28.** See syn. in Ledeb. Fl. Ross. 2. 19.—Willd. Spec. 2. 1002. Cambess. l. c. 51 (385). Spreng. Syst. 2. 503. Seringe, DC. Prodr. 2. 545. Torr. & Gray, Fl. 1. 416.

S. Millefolium. Torrey, Pac. R. Rep. 4. 83, **t. 5.** Coulter, Hayd. Rep. 1872, 764. Watson, Pl. Wheeler, 8. Brew. & Wats. Bot. Calif. 1. 170.

Chamæbatia foliolosa. Newberry, Pac. R. Rep. 6. 73.

S. pectinata. Torr. & Gray, Fl. 1. 417. Walp. Rep. 2. 51. Ledeb. Fl. Ross. 2. 19. Hook. f. Arct. Pl. 289. Benth. & Hook. Gen. Pl. 1. 611. Rothr. Fl. Alask. 445. Brew. & Wats. Bot. Calif. 1. 171.

Saxifraga pectinata. Pursh, 312. Poir. Suppl. 5. 77. DC. Prodr. 4. 33. Eat. & Wr. 415.

Eriogynia pectinata. Hook. Fl. Bor.-Am. 1. 255, **t. 88**. Don, Mill. 3. 226. Raf. Fl. Tellur. 2. 71.

Luetkea sibbaldioides. Bongard, Veg. Sitch. 130, **t. 2.** Presl, Repert. Bot. 1. 313.

Saxifraga cæspitosa. Gray, Proc. Am. Acad. 8. 383.

S. salicifolia. Linn. Spec. 489. See syn. in Willd. Spec. 2. 1055; Ledeb. Fl. Ross. 2. 15; Trautv. & Meyer, Fl. Ochot. 31; Pritzel, Index Icon. Bot. 1059.—Ait. Hort. Kew. 2. 198. Michx. Fl. 1. 293. Poir. Dict. 7. 349. Pursh, 341. Elliott, 1. 560. Torrey, Fl. U. S. 481; Fl. N. Y. 1. 198. Cambess. l. c. 38 (372). Spreng. Syst. 2. 503. Seringe, DC. Prodr. 2. 544. Hook. Fl. Bor.-Am. 1. 172. Beck, Bot. 99. Raf. New Flora, 3. 64. Darling. Fl. Cestr. 209. Torr. & Gray, Fl. 1. 415. Eat. & Wr. 440. Emerson, Trees of Mass. 427. Seem. Bot. Herald, 52. Richard. Arct. Exped. 426. Parry, Pl. Minn. 611. Curtis, Bot. N. Car. 103. Chapman, 121. Hook. f. Arct. Pl. 289. Pl. Bourgeau, 256. Rothr. Fl. Alask. 445. Gray, Manual, 149.

S. alba. DuRoi, Harbk. 2. 430; Obs. Bot. 14. Moench, Meth. 662. Ehrh. Beitr. 7. 137. Bigel. Fl. Bost. 196. Watson, Dendr. Brit. **t. 133.**

S. tomentosa, var. *alba.* Marsh. Arbust. 147.

S. hypericifolia. Marsh. Arbust. 146, not Linn. Pursh, 341. Torrey, Fl. U. S. 481. Beck, Bot. 98. Eat. & Wr. 440.

S. carpinifolia. Willd. Enum. 540. Guimp. Otto & Hayne, **t. 7.** Don, Mill. 2. 520. Spach, Hist. Veg. 1. 440. Raf. New Flora, 3. 65.

S. crenata. Muhl. Cat. 51, not Linn. Torrey, Fl. U. S. 482. Eat. & Wr. 440.

S. hypericifolia, var. *Plunkenetia.* Seringe, DC. Prodr. 2. 543. Hook. Fl. Bor.-Am. 1. 171.

S. paniculata. Don, Mill. 2. 520. Spach, Hist. Veg. 1. 441.

S. amœna, ciliata, flexuosa, heterophylla, obovata & ovata. Raf. New Flora, 3. 64-66.

S. tomentosa. Linn. Spec. 489. DuRoi, Harbk. 2. 433. Wangenh. Amer. 118. Marsh. Arbust. 147. Ait. Hort. Kew. 2. 198. Willd. Arb. 371; Spec. 2. 1056. Michx. Fl. 1. 293. Poir. Dict. 7. 350. Persoon, 2. 46. Pursh, 341. Bigel. Fl. Bost. 196. Elliott, 1. 560. Torrey, Fl. U. S. 481; Fl. N. Y. 1. 199. Cambess. l. c. 39 (373). Spreng. Syst. 2. 502. Seringe, DC. Prodr. 2. 544. Hook. Fl. Bor.-Am. 1. 172. Raf. Med. Bot. 2. 91, **f. 88**; New Flora, 3. 62. Don, Mill. 2. 520. Beck, Bot. 99. Spach, Hist. Veg. 1. 441. Torr. & Gray, Fl. 1. 415. Eat. & Wr. 440. Dietr. 3. 126. Loud. Arb. 2. 730. Emerson, Trees of Mass. 427. Richard. Arct. Exped. 426. Parry, Pl. Minn. 611. Curtis, Bot. N. Car. 103. Chapman, 120. Gray, Manual, 149.

S. ferruginea, glomerata, parvifolia & rosea. Raf. New Flora, 3. 62 & 63.

S. alba & amœna; salicifolia.
ariæfolia; discolor.
Aruncus; Astilbe decandra.
Californica; Vauquelinia Torreyi.
capitata; Neillia opulifolia.
carpinifolia & ciliata; salicifolia.
S. chamædrifolia & corymbosa; betulæfolia.
crenata; salicifolia.
cuneifolia; Douglasii.
dumosa; discolor.
ferruginea & glomerata; tomentosa.

S. flexuosa, heterophylla & *hypericifolia;* salicifolia.
Menziesii; Douglasii.
monogyna; Neillia Torreyi.
Nobleana; Douglasii.
obovata & *ovata;* salicifolia.
opulifolia; Neillia opulifolia & Torreyi.
ostryfolia; betulifolia.
S. palmata; lobata.
paniculata; salicifolia.
parvifolia; tomentosa.
repens; betulifolia.
rosea; tomentosa.
stipulacea & *stipulata;* Gillenia stipulacea.
tomentosa; salicifolia.
trifoliata; Gillenia trifoliata.

VAUQUELINIA Torreyi. Watson, Proc. Am. Acad. 11. 147. Brew. & Wats. Bot. Calif. 1. 169.
Spiræa Californica. Torrey, Emory's Rep. 140.
V. corymbosa. Torrey, Mex. Bound. 64, not Corr.

WALDSTEINIA fragarioides. Trattinick, Ros. Mon. 3. 107. Torr. & Gray, Fl. 1. 426. Torrey, Fl. N. Y. 1. 204. Chapman, 123. Gray, Manual, 153.
Dalibarda fragarioides. Michx. Fl. 1. 300, **t. 28.** Poir. Dict. 6. 250. Persoon, 2. 53. Ait. f. Hort. Kew. 3. 271. Sims, Bot. Mag. **t. 1567.** Pursh, 350. Lodd. Bot. Cab. **t. 408.** Elliott, 1. 571. Bigel. Fl. Bost. 2 ed. 202. Torrey, Fl. U. S. 491. Spreng. Syst. 2. 526. Eat. & Wr. 220.
Comaropsis fragarioides. Nestler, Monogr. Potent. 8, **t. 1.** DC. Prodr. 2. 555. Hook. Fl. Bor.-Am. 1. 177. Don, Mill. 2. 529. Beck, Bot. 102.
Waldsteinia Doniana. Tratt. Ros. 3. 109.
Comaropsis Doniana. DC. Prodr. 2. 555.

W. lobata. Torr. & Gray, Fl. 1. 426. Dietr. 3. 124. Chapman, 123. Wood, Cl.-Book, 341; Bot. & Fl. 107.
Dalibarda lobata. Baldwin in Elliott, 1. 571. Hook. Icon. **t. 76.** Eat. & Wr. 220. Walp. Rep. 2. 13.

SAXIFRAGACEÆ.

ASTILBE decandra. D. Don, Prodr. Fl. Nepal. 211. Don, Mill. 3. 229. Torr. & Gray, Fl. 1. 589. Gray, Am. Journ. Sci. 1. 42. 37 (Lond. Journ. Bot. 2. 122); Manual, 167.* Chapman, 154.
Spiræa Aruncus, var. *hermaphrodita.* Michx. Fl. 1. 294.
Tiarella biternata. Vent. Jard. Malm. **t. 54** (Schrad. Journ. Bot. 1807, 85). Poir. Dict. 7. 158. Persoon, 1. 491. Pursh, 313. Haworth, Enum. Saxif. 59. Elliott, 1. 513. Spreng. Syst. 2. 361. DC. Prodr. 4. 51. Eat. & Wr. 452.
Holcia biternata. Morr. & Decaisne, Ann. Sci. Nat. 2. 2. 316, **t. 11, f. 11, 12** (seeds). Spach, Hist. Veg. 5. 65. Decaisne, Ann. Sci. Nat. 2. 15. 36.
Blondia biternata. Raf. Fl. Tellur. 2. 75.

BOLANDRA Californica. Gray, Proc. Am. Acad. 7. 241; Bot. Calif. 1. 196. Baillon, Hist. Pl. 3. 331.

BOYKINIA aconitifolia. Nutt. in Journ. Acad. Philad. 7. 113. Torr. & Gray, Fl. 1. 576. Gray, Am. Journ. Sci. 1. 42. 21 (Lond. Journ. Bot. 1. 227); Manual, 169; Bot. Calif. 1. 196. Walp. Rep. 2. 362. Chapman, 153.
Therofon napelloides. Raf. New Flora, 4. 66.
Saxifraga aconitifolia. Fielding, Sert. Pl. **t. 57.** Engler, Monogr. Saxifr. 111.

B. major. Gray, Bot. Calif. 1. 196.
B. occidentalis, var. *elata.* Gray, Proc. Am. Acad. 8. 383.

B. occidentalis. Torr. & Gray, Fl. 1. 577 & 698. Walp. Rep. 2. 367. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 196.

Saxifraga elata. Nutt.; Torr. & Gray, Fl. 1. 575. Walp. l. c. Engler, l. c.

B. Richardsoni. Gray, Am. Journ. Sci. 1. 42. 21 (Lond. Journ. Bot. 1. 228); Bot. Calif. 1. 196. Rothr. Fl. Alask. 447.

Saxifraga Richardsonii. Hook. Fl. Bor.-Am. 1. 247. Don, Mill. 3. 209. Torr. & Gray, Fl. 1. 575. Eat. & Wr. 415. Dietr. 2. 1528. Walp. Rep. 2. 367. Ledeb. Fl. Ross. 2. 217. Seem. Bot. Herald, 32. Hook. f. Arct. Pl. 292. Engler, l. c. 110.

Hemieva Richardsonii. Raf. New Flora, 4. 66.

Saxifraga Nelsoniana. Hook. & Arn. Bot. Beechey, 124, **t. 29**, not Don.

CARPENTERIA Californica. Torrey, Pl. Frem. 12, **t. 7** (Regensb. Flora, 36. 706); Proc. Am. Assoc. 3. 192. Gray, Am. Journ. Sci. 2. 16. 424; Bot. Calif. 1. 203. Walp. Ann. 4. 820. Baillon, Hist. Pl. 3. 349.

CHRYSOSPLENIUM alternifolium. Linn. Spec. 398. See syn. in Ledeb. Fl. Ross. 2. 226; Middend. Fl. Taimyr. 45; Trautv. & Meyer, Fl. Ochot. 42; Pritzel, Ind. Icon. Bot. 264.—R. Brown, Parry's 1st Voy. 275. Richard. Frankl. Journ. 2 ed. 19. Hook. in Parry's 2d Voy. 395; Fl. Bor.-Am. 1. 241. Cham. in Linnæa, 6. 557. Don, Mill. 3. 227. Hook. & Arn. Bot. Beechey, 124. Torr. & Gray, Fl. 1. 589. Eat. & Wr. 196. Dietr. 2. 1539. Seem. Bot. Herald, 32. Hook. f. Journ. Linn. Soc. 1. 117 & 122; Arct. Pl. 291 & 328. Gray, Proc. Acad. Philad. 1863, 62. Rothr. Fl. Alask. 447. Porter, Fl. Col. 40.

C. Americanum. Schweinitz in Hook. Fl. 1. 242. Don, Mill. 3. 227. Darlington, Fl. Cestr. 270. Torr. & Gray, Fl. 1. 589. Dietr. 2. 1539. Torrey, Fl. N. Y. 1. 258. Maximowicz, Prim. Fl. Amur. 121. Chapman, 154. Gray, Manual, 171.

C. oppositifolium. Walter, 140, not Linn. Michx. Fl. 1. 269. Pursh, 269. Nutt. Genera, 1. 254. Elliott, 1. 511. Torrey, Fl. U. S. 445. Bigel. Fl. Bost. 154. DC. Prodr. 2. 48, in part. Beck, Bot. 138. Eat. & Wr. 196.

C. glechomæfolium. Nutt.; Torr. & Gray, Fl. 1. 589. Walp. Rep. 2. 369. Cooper, Pac. R. Rep. 12. 63. Torrey, Bot. Wilkes, 312.

C. oppositifolium, var. *Scouleri.* Hook. Fl. Bor.-Am. 1. 242. Don, Mill. 3. 227. Dietr. 2. 1539.

DECUMARIA barbara. Linn. Spec. 2 ed. 1663. Ait. Hort. Kew. 2. 220. Bosc, Mem. Soc. Par. 1. 76, **t. 13.** Lam. Ill. 2. 521, **t. 403.** Willd. Spec. 2. 850; Enum. 516. Persoon, 2. 4. Poir. Suppl. 2. 459. Pursh, 328. Elliott, 1. 533. Spreng. Syst. 2. 460. DC. Prodr. 3. 206. Don, Mill. 2. 808. Torr. & Gray, Fl. 1. 593. Eat. & Wr. 221. Dietr. 3. 86. Loud. Arb. 2. 955, **f. 679, 680.** Curtis, Bot. N. Car. 110. Chapman, 155. Wood, Cl.-Book, 374; Bot. & Fl. 116. Baillon, Hist. Pl. 3. 348, **f. 404.**

Forsythia scandens. Walter, 154.

D. sarmentosa. Bosc, Willd., & Pursh, ll. cc. Elliott, 1. 534. Eat. & Wr. 221.

D. radicans. Moench, Meth. 17.

D. Forsythia. Michx. Fl. 1. 282.

FENDLERA rupicola. Engelm. & Gray; Gray, Pl. Wright. 1. 77, **t. 5**, & 2. 64; Pl. Thurb. 300; Ives's Rep. 15. Torrey, Pac. R. Rep. 4. 4 & 90; Mex. Bound. 69. Walp. Ann. 4. 820. Baillon, Hist. Pl. 3. 349. Brandegee, Fl. S. W. Col. 236.

Var. **Wrightii.** Gray, Pl. Wright. 1. 77. Walp. Ann. 4. 820.

HEUCHERA Americana. Linn. Spec. 226. Hill, Veg. Syst. 13, **t. 43**, f. 1. Walter, 111. Ait. Hort. Kew. 1. 320. Lam. Dict. 3. 127. Willd. Spec. 1. 1328. Enum. 295. Persoon, 1. 290. Schkuhr, Handb. t. **58.** Elliott, 1. 337. Roem. & Schult. Syst. 6. 215. Haworth, Enum. Sax. 61. James, Long's Exped. 2. 6[illegible]

Torrey, Fl. J. S. 1. 290; Ann. Lyc. N. Y. 2. 204; Fl. N. Y. 1. 256. Bigel. Fl. Bost. 2 ed. 106. Spreng. Syst. 1. 806. Seringe, DC. Prodr. 4. 51. Beck, Bot. 139. Don, Mill. 3. 229. Spach, Hist. Veg. 5. 67. Lindl. Fl. Med. 273. Darling. Fl. Cestr. 175. Torr. & Gray, Fl. 1. 557. Eat. & Wr. 268. Dietr. 2. 923. Hook. in Lond. Journ. Bot. 6. 232. Engelm. Pl. Upp. Miss. 193. Agardh, Theor. Syst. **t. 7, f. 13, 14.** Lesqx. Fl. Ark. 362. Chapman, 152. Gray, Manual, 169. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 326.

H. scapigera. Moench, Meth. 674.

H. cortusa. Michx. Fl. 1. 171. Willd. Enum. 296.

H. viscida. Pursh, 187. Poir. Suppl. 5. 700. Raf. Med. Fl. 1. 243.

H. bracteata. Seringe, DC. Prodr. 4. 52. Don, Mill. 3. 230. Torr. & Gray, Fl. 1. 581. Eat. & Wr. 269. Gray, Pl. Wright. 2. 64; Am. Journ. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 62. Porter, Hayd. Rep. 1870, 475; Fl. Col. 40.

? *Tiarella trifoliata.* James, Cat. 181.

Tiarella (?) *bracteata.* Torrey, Ann. Lyc. N. Y. 2. 204. Eat. & Wr. 452.

Orrotrys bracteata. Raf. Fl. Tellur. 2. 74.

H. Curtisii. Gray, Am. Journ. Sci. 1. 42. 15 (Lond. Journ. Bot. 1. 221). Chapman, 152. A doubtful species.

H. caulescens, var. *β.* Torr. & Gray, Fl. 1. 578. Wood, Cl.-Book, 372.

H. cylindrica. Dougl.; Hook. Fl. Bor.-Am. 1. 236. Don, Mill. 3. 230. Lindl. Bot. Reg. 23, **t. 1924.** Torr. & Gray, Fl. 1. 580. Walp. Rep. 2. 369. Dietr. 2. 923. Newberry, Pac. R. Rep. 6. 75. Cooper, same, 12. 62. Watson, King's Rep. 5. 94. Porter, Hayd. Rep. 1871, 482. Coulter, same, 1872, 766. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 201. Torrey, Bot. Wilkes, 310.

H. ovalifolia. Nutt.; Torr. & Gray, Fl. 1. 581. Walp. Rep. 2. 370.

H. glabella. Torr. & Gray, Fl. 1. 581. Walp. Rep. 2. 370.

Yamala cylindrica. Raf. Fl. Tellur. 2. 75.

Var. **alpina.** Watson, King's Rep. 5. 94.

H. glabra. Willd.; Roem. & Schult. Syst. 6. 216. Seringe, DC. Prodr. 4. 52. Hook. Fl. Bor.-Am. 1. 236, **t. 79.** Don, Mill. 3. 230. Torr. & Gray, Fl. 1. 579. Ledeb. Fl. Ross. 2. 229. Rothr. Fl. Alask. 447. Gray, Bot. Calif. 1. 201.

Tiarella colorans. Graham, Edinb. Phil. Journ. 1829, 349 (Litt.-Ber. zu Linnæa, 1830, 158).

H. divaricata. Fisch.; Seringe, DC. Prodr. 4. 51. Bongard, Veg. Sitch. 139. Don, Mill. 3. 230.

H. Hallii. Gray, Proc. Acad. Philad. 1863, 62. Porter, Fl. Col. 41.

H. hispida. Pursh, 188. Elliott, 1. 337. Roem. & Schult. Syst. 6. 216. Haworth, Enum. Sax. 62. Spreng. Syst. 1. 806. Seringe, DC. Prodr. 4. 52. Don, Mill. 3. 230. Torr. & Gray, Fl. 1. 579. Eat. & Wr. 268. Dietr. 2. 923. Gray, Am. Journ. Sci. 1. 42. 16 (Lond. Journ. Bot. 1. 221); Pl. Fendl. 54; Manual, 170. Engelm. Pl. Upp. Miss. 193. Chapman, 152.

H. Richardsonii. R. Brown, Frankl. Journ. 766, **t. 29.** Spreng. Syst. 1. 806. Seringe, DC. Prodr. 4. 52. Torrey, Ann. Lyc. N. Y. 2. 204. Hook. Fl. Bor.-Am. 1. 237; Lond. Journ. Bot. 6. 232. Don, Mill. 3. 230. Torr. & Gray, Fl. 1. 580. Dietr. 2. 923. Fisch. & Mey. Ind. Sem. h. Petrop. 8. 63 (Litt.-Ber. zu Linnæa, 1842, 160). Parry, Pl. Minn. 613. Engelm. Pl. Upp. Miss. 193. Gray, Pac. R. Rep. 12. 43. Hook. f. Arct. Pl. 292. Pl. Bourgeau, 256.

H. lucida. Schlecht. Ind. Sem. h. Hal. 1848, 8 (Linnæa, 24. 186).

H. micrantha. Dougl.; Lindl. Bot. Reg. 15, **t. 1302.** Seringe, DC. Prodr. 4. 607. Hook. Fl. Bor.-Am. 1. 236; Lond. Journ. Bot. 6. 231. Don, Mill. 3. 230.

Torr. & Gray, Fl. 1. 579. Eat. & Wr. 269. Schlecht. Ind. Sem. h. Hal. 1849, 7 (Ann. Sci. Nat. 3. 12. 361). Torrey, Pac. R. Rep. 4. 89; Mex. Bound. 69; Bot. Wilkes, 310. Cooper, Pac. R. Rep. 12. 62. Boland. Cat. 11. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 201.

H. Barbarossa. Presl, Rel. Hænk. 2. 56. Don, Mill. 3. 230.

? *H. pilosissima.* Benth. Pl. Hartw. 311.

? *H. erubescens.* Braun & Bouché, Ind. Sem. h. Berol. 1871, Appx. 2.

H. parvifolia. Nutt.; Torr. & Gray, Fl. 1. 581. Walp. Rep. 2. 370. Gray, Pl. Fendl. 54; Pl. Wright. 2. 64; Am. Journ. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 62. Torrey, Mex. Bound. 69. Porter, Hayd. Rep. 1870, 475; 1871, 482; Fl. Col. 40. Watson, King's Rep. 5. 96. Coulter, Hayd. Rep. 1872, 766. Rothr. Pl. Wheeler, 38.

H. pilosissima. Fisch. & Mey. in Ind. Sem. h. Petrop. 5. 36 (Litt.-Ber. zu Linnæa, 1839, 110). Torr. & Gray, Fl. 1. 582. Walp. Rep. 2. 370. Boland. Cat. 11. Gray, Bot. Calif. 1. 201.

H. hispida. Hook. & Arn. Bot. Beechey, 347.

H. hirtiflora. Torr. & Gray, Fl. 1. 582. Walp. Rep. 2. 370.

H. pubescens. Pursh, 187. Poir. Suppl. 5. 700. Roem. & Schult. Syst. 6. 216. Haworth, Enum. Saxif. 61. Torrey, Fl. U. S. 291. Spreng. Syst. 1. 866. Seringe, DC. Prodr. 4. 52. Don, Mill. 3. 230. Beck, Bot. 139. Torr. & Gray, Fl. 1. 579. Eat. & Wr. 268. Dietr. 2. 923. Chapman, 152. Gray, Manual, 170.

H. pulverulenta & *reniformis.* Raf. Med. Fl. 1. 243 & 244.

H. ribifolia. Fisch. & Lall. in Ind. Sem. h. Petrop. 8. 62 (Litt.-Ber. zu Linnæa, 1842, 166). Walp. Rep. 2. 370.

H. rubescens. Torrey, Sitgr. Rep. 160; Stansb. Rep. 388, **t. 5** (Regensb. Flora, 36. 703); Mex. Bound. 69. Gray, Pl. Wright. 2. 63 & 64; Bot. Calif. 1. 200. Walp. Ann. 5. 29. Durand, Fl. Utah, 165. Watson, King's Rep. 5. 94. Porter, Hayd. Rep. 1871, 482. Coulter, same, 1872, 766. Kellogg, Proc. Calif. Acad. 5. 45. Parry, Am. Naturalist, 9. 270. Brandegee, Fl. S. W. Col. 236.

H. Rugelii. Shuttleworth; Kunze, Linnæa, 20. 43. Walp. Ann. 1. 337.

? *H. glauca.* Raf. Med. Fl. 1. 244.

H. sanguinea. Engelm. in Wisliz. Rep. 23. Gray, Pl. Wright. 2. 63. Walp. Ann. 3. 897.

H. villosa. Michx. Fl. 1. 172. Poir. Suppl. 3. 49. Pursh, 188. Roem. & Schult. Syst. 6. 216. Haworth, Enum. Saxif. 61. Spreng. Syst. 1. 867. Seringe, DC. Prodr. 4. 52. Raf. Med. Fl. 1. 244. Hook. Fl. Bor.-Am. 1. 236. Don, Mill. 3. 230. Spach, Hist. Veg. 5. 67. Torr. & Gray, Fl. 1. 578. Eat. & Wr. 269. Dietr. 2. 923. Gray, Am. Journ. Sci. 1. 42. 15 (Lond. Journ. Bot. 1. 221). Chapman, 152. Gray, Manual, 170.

H. caulescens. Pursh, 188. Poir. Suppl. 5. 700. Elliott, 1. 338. Roem. & Schult. Syst. 6. 216. Haworth, l. c. 62. Spreng. Syst. 1. 867. Seringe, DC. Prodr. 4. 52. Don, Mill. 3. 230. Torr. & Gray, Fl. 1. 578, excl. var. Eat. & Wr. 269. Dietr. 2. 923. Wood, Cl.-Book, 372; Bot. & Fl. 115.

H. acerifolia & *squamosa.* Raf. Med. Fl. 1. 241 & 244. Seringe, DC. Prodr. 4. 52. Don, Mill. 3. 231. Eat. & Wr. 269.

H. foliosa. Raf. Med. Fl. 244.

H. parviflora. Bartling, Ind. Sem. h. Goett. 1838 (Litt.-Ber. zu Linnæa, 1839, 96).

H. acerifolia; villosa.
Barbarossa; micrantha.
Californica; Tiarella unifoliata.
caulescens; Curtisii, villosa.
Cortusa; Americana.
divaricata; glabra.
erubescens; micrantha.
foliosa; villosa.
glabella; cylindrica.
glauca; Rugelii.
hirtiflora & *hispida;* pilosissima.
longipetala; Tiarella unifoliata.
H. lucida; hispida.
Menziesii; Tolmiea Menziesii.
ovalifolia; cylindrica.
parviflora; villosa.
pilosissima; micrantha.
pulverulenta; pubescens.
reniformis & *ribifolia;* pubescens.
Richardsonii; hispida.
scapigera; Americana.
squamosa; villosa.
viscida; Americana.
——— ?; Sullivantia Ohioensis.

HYDRANGEA arborescens. Linn. Spec. 397. Ait. Hort. Kew. 2. 76. Lam. Dict. 3. 150; Ill. 2. 493, **t. 370, f. 1.** Smith, Icon. Pict. 1. 12, under *H. hortensis.* Sims, Bot. Mag. **t. 437.** Willd. Spec. 2. 633; Enum. 457. Schkuhr, Handb. 1. 368, t. **119.** Spreng. Syst. 2. 360. DC. Prodr. 4. 14. Don, Mill. 3. 232. Spach, Hist. Veg. 5. 26. Torr. & Gray, Fl. 1. 591. Dietr. 2. 1525. Torrey, Nicol. Rep. 150. Loud. Arb. 2. 994, **f. 748.** Curtis, Bot. N. Car. 100. Lesqx. Fl. Ark. 362. Chapman, 155. Gray, Manual, 166.

H. frutescens. Marsh. Arbust. 61. Moench. Meth. 1. 106.

H. vulgaris. Michx. Fl. 1. 268. Persoon, 1. 486. Poir. Suppl. 3. 71. Pursh, 309. Nutt. Genera, 1. 284. Elliott, 1. 509. Torrey, Fl. U. S. 442. Beck, Bot. 137. Raf. New Flora, 3. 77. Darling. Fl. Cestr. 269. Eat. & Wr. 276.

H. acuta, glauca, heterophylla & *rotundifolia.* Raf. New Flora, 3. 77 & 78.

Var. **cordata.** Torr. & Gray, Fl. 1. 591.

H. cordata. Pursh, 309. Elliott, 1. 509. Watson, Dendr. Brit. **t. 42.** Spreng. Syst. 2. 360. DC. Prodr. 4. 14. Don, Mill. 3. 232. Raf. New Flora, 3. 78. Spach, Hist. Veg. 5. 26. Eat. & Wr. 276. Dietr. 2. 1525. Loud. Arb. 2. 995, **f. 749.**

H. vulgaris, var. *cordata.* Torrey, Ann. Lyc. N. Y. 2. 205.

H. amplifolia. Raf. l. c. 78.

H. quercifolia. Bartram, Trav. 382, **t. 7.** Willd. Spec. 2. 634. Sims, Bot. Mag. **t. 975.** Ait. f. Hort. Kew. 3. 63. Poir. Suppl. 3. 71. Pursh, 309. Nouv. Duham. 6. 262, **t. 78.** Nutt. Genera, 1. 284. Elliott, 1. 510. Spreng. Syst. 2. 361. DC. Prodr. 4. 14. Audubon, Birds, **t. 129.** Don, Mill. 3. 233. Tausch, Regensb. Flora, 17. 493. Hook. Comp. Bot. Mag. 1. 46. Raf. New Flora, 3. 79. Torr. & Gray, Fl. 1. 592. Eat. & Wr. 276. Dietr. 2. 1525 (as *H. quinquefolia*). Loud. Arb. 2. 995, **f. 751.** Chapman, 155. Wood, Cl.-Book, 373; Bot. & Fl. 116.

H. radiata. Smith, Icon. Pict. 1. 12. Poir. Suppl. 3. 71.

H. angulata. Tausch, l. c. 17. 494.

H. radiata. Walter, 251. Lam. Ill. 2. 493, **t. 307, f. 2.** Willd. Spec. 2. 634; Enum. 458. Ait. f. Hort. Kew. 3. 63. Poir. Suppl. 3. 71. Torrey, Fl. U. S. 443. Beck, Bot. 137. Torr. & Gray, Fl. 1. 592. Curtis, Bot. N. Car. 101. Chapman, 155. Wood, Cl.-Book, 373; Bot. & Fl. 116.

H. nivea. Michx. Fl. 1. 268. Persoon, 1. 486. Poir. Suppl. 3. 71. Pursh, 309. Nutt. Genera, 1. 284. Elliott, 1. 510. Watson, Dendr. Brit. **t. 43.** Spreng. Syst. 2. 361. DC. Prodr. 4. 14. Don, Mill. 3. 232. Spach, Hist. Veg. 5. 25. Eat. & Wr. 276. Dietr. 2. 1525. Loud. Arb. 2. 995, **f. 750.**

H. discolor. Raf. New Flora, 3. 79.

ITEA Virginica. Linn. Spec. 299. Marsh. Arbust. 65. L'Her. Stirp. 1. 138. Walter, 102. Ait. Hort. Kew. 1. 277. Lam. Dict. 3. 315; Ill. 2. 144, **t. 147, f. 1.**

Swartz, Obs. Bot. 93. Willd. Spec. 1. 1146; Enum. 261. Michx. Fl. 1. 157. Persoon, 1. 175. Gaertn. Fruct. 3, **t. 209.** Pursh, 171. Nutt. Genera, 1. 144. Loisel. Nouv. Duham. 6, **t. 9.** Roem. & Schult. Syst. 5. 408. Elliott, 1. 293. Sims, Bot. Mag. **t. 2409.** Torrey, Fl. U. S. 248. Watson, Dendr. Brit. **t. 12.** Spreng. Syst. 1. 794. DC. Prodr. 4. 6. Beck, Bot. 139. Don, Mill. 3. 196. Hook. Comp. Bot. Mag. 1. 46. Torr. & Gray, Fl. 1. 590. Eat. & Wr. 286. Loud. Arb. 2. 992, **f. 745.** Agard. Theor. Syst. **t. 12, f. 7.** Curtis, Bot. N. Car. 100. Chapman, 155. Gray, Manual, 165. Baillon, Hist. Pl. 3. 355, **f. 409, 410.**

Diconangia heterophylla. Raf. Aut. Bot. 7.

JAMESIA Americana. Torr. & Gray, Fl. 1. 593. Gray, Pl. Fendl. 55; Am. Journ. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 62. Walp. Ann. 2. 615. Torrey, Pac. R. Rep. 4. 90. Porter, Hayd. Rep. 1870, 475; Fl. Col. 41. Watson, King's Rep. 5. 97. Baillon, Hist. Pl. 3. 349. Carrière, Rev. Hort. 1874, 389, **f. 52.** Rothr. Pl. Wheeler, 38. Hook. f. Bot. Mag. **t. 6142.**

LEPTARRHENA pyrolifolia. R. Brown, Parry's 1st Voy. 273. Hook. Fl. Bor.-Am. 1. 256, **t. 89.** Seringe, DC. Prodr. 4. 48. Bongard, Veg. Sitch. 139. Don, Mill. 3. 226. Raf. Fl. Tellur. 2. 71. Torr. & Gray, Fl. 1. 563. Eat. & Wr. 297. Ledeb. Fl. Ross. 2. 225. Walp. Rep. 5. 827. Rothr. Fl. Alask. 447. Baillon, Hist. Pl. 3. 333.

Saxifraga pyrolifolia. D. Don, Saxifr. in Trans. Linn. Soc. 13. 389. Spreng. Syst. 2. 365.

Saxifraga amplexifolia. Sternb. Rev. Saxifr. Suppl. 2, **t. 2;** Linnæa, 6. 553. Spreng. Syst. 2. 367.

L. amplexifolia. Seringe, DC. Prodr. 4. 48. Raf. Fl. Tellur. 2. 72.

L. micrantha. Fisch.; Raf. l. c.

LEPUROPETALON spathulatum. Elliott, 1. 370 (Spreng. Neue Entdeck. 2. 194). Spreng. Syst. 1. 940. DC. Prodr. 4. 53. Don, Mill. 3. 231. Torr. & Gray, Fl. 1. 590. Eat. & Wr. 297. Gray, Pl. Wright. 1. 77; Hall's Pl. Texas, 11. Planchon, Ann. Sci. Nat. 4. 2. 258. Torrey, Mex. Bound. 69. Chapman, 152. Wood, Cl.-Book, 373; Bot. & Fl. 115. Baillon, Hist. Pl. 3. 333.

Pyridanthera spathulata. Muhl. Cat. 24.

Cryptopetalum pusillum. Hook. & Arn. in Bot. Misc. 3. 344.

L. pusillum. C. Gay, Fl. Chil. 3. 43.

MITELLA Breweri. Gray, Proc. Am. Acad. 6. 533; Bot. Calif. 1. 199.

M. caulescens. Nutt.; Torr. & Gray, Fl. 1. 586. Walp. Rep. 2. 371. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 200. Torrey, Bot. Wilkes, 311.

M. diphylla. Linn. Spec. 406. Hill, Veg. Syst. 13, **t. 32, f. 1.** Gaertn. Fruct. 1. 208, **t. 44, f. 6.** Ait. Hort. Kew. 2. 83. Lam. Dict. 4. 195; Ill. 2. 395, **t. 373, f. 1.** Willd. Spec. 2. 659; Enum. 463. Michx. Fl. 1. 270. Persoon, 1. 491. Schkuhr, Handb. 1. 375, **t. 120.** Pursh, 313. Ker, Bot. Reg. 2, **t. 166.** Haworth, Enum. Saxifr. 57. Barton, Fl. N. Am. 3. 51, **t. 89.** Bigel. Fl. Bost. 2 ed. 178. Torrey, Fl. U. S. 446; Fl. N. Y. 1. 257. Spreng. Syst. 2. 361. Seringe, DC. Prodr. 4. 49. Hook. Fl. Bor.-Am. 1. 240. Beck, Bot. 138. Don, Mill. 3. 227. Spach, Hist. Veg. 5. 62. Darling. Fl. Cestr. 271. Torr. & Gray, Fl. 1. 586. Eat. & Wr. 321. Dietr. 2. 1539. Chapman, 154. Gray, Manual, 170; Bot. Calif. 1. 200.

M. nuda. Linn. Spec. 406. See syn. in Ledeb. Fl. Ross. 2. 228. — Ait. f. Hort. Kew. 3. 73. Haworth, Enum. Saxifr. 58. Richard. Frankl. Journ. 10. Hook. Fl. Bor.-Am. 1. 240. Don, Mill. 3. 228. Torr. & Gray, Fl. 1. 586. Dietr. 2. 1538. Torrey, Fl. N. Y. 1. 257. Hook. f. Arct. Pl. 291. Pl. Bourgeau, 256. Gray, Manual, 170; Bot. Calif. 1. 200. Baillon, Hist. Pl. 3. 330, **f. 369.**

M. reniformis. Lam. Ill. 2. 395, **t. 373, f. 2**; Dict. 4. 196. Pursh, 314. Spreng. Syst. 2. 361.

M. cordifolia. Lam. Ill. l. c. **f. 3**; Dict. 4. 196. Willd. Spec. 2. 660. Michx. Fl. 1. 270. Persoon, 1. 491. Pursh, 314. Haworth, l. c. 57. Torrey, Fl. U. S. 446. Spreng. Syst. 2. 361. Seringe, DC. Prodr. 4. 49. Beck, Bot. 139. Spach, Hist. Veg. 5. 63. Eat. & Wr. 321.

? *Tiarella unifolia.* Retz, Obs. Bot. Fasc. 3. 30.

Var. *β.* Torr. & Gray, Fl. 1. 586. Walp. Rep. 2. 371.

M. prostrata. Michx. Fl. 1. 270. Persoon, 1. 491. Poir. Suppl. 3. 710. Haworth, l. c. 57. Bigel. Fl. Bost. 2 ed. 179. Spreng. Syst. 2. 361. Seringe, DC. Prodr. 4. 49. Eat. & Wr. 321.

M. pentandra. Hook. Bot. Mag. **t. 2933**; Fl. Bor.-Am. 1. 241. Graham, Edinb. Phil. Journ. 1829, 346. Torr. & Gray, Fl. 1. 586. Dietr. 2. 1539. Newberry, Pac. R. Rep. 6. 74. Gray, Am. Journ. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 62; Bot. Calif. 1. 200. Watson, King's Rep. 5. 95. Porter, Hayd. Rep. 1871, 482; Fl. Col. 40. Coulter, Hayd. Rep. 1872, 766. Baillon, Hist. Pl. 3. 330, **f. 370.** Torrey, Bot. Wilkes, 312.

Drummondia mitelloides. DC. Prodr. 4. 50. Don, Mill. 3. 228, **f. 50.** Spach, Hist. Veg. 5. 64. Eat. & Wr. 230.

Pertiantia mitelloides. Raf. Fl. Tellur. 2. 72.

Mitellopsis Drummondia. Meissner, Pl. Vasc. Gen. 1. 100.

Mitellopsis pentandra. Walp. Rep. 2. 370.

M. trifida. Graham, Edinb. Phil. Journ. 1829, 185 (Litt.-Ber. zu Linnæa, 1830, 155). Hook. Fl. Bor.-Am. 1. 241, **t. 82**; Lond. Journ. Bot. 6. 232. Don, Mill. 3. 228. Torr. & Gray, Fl. 1. 587. Eat. & Wr. 321. Dietr. 2. 1538. Watson, King's Rep. 5. 95. Coulter, l. c. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 200.

Ozomelis varians. Raf. Fl. Tellur. 2. 73.

Mitellopsis trifida. Meissner, l. c. Walp. Rep. 2. 370.

PARNASSIA asarifolia. Ventenat, Jard. Malm. **t. 39** (Schrad. Journ. Bot. 1807, 77; Koenig, Ann. Bot. 1. 390). Persoon, 1. 331. Pursh, 208. Poir. Suppl. 4. 302. Roem. & Schult. Syst. 6. 696. Elliott, 1. 372. DC. Prodr. 1. 320. Spreng. Syst. 1. 951. Don, Mill. 1. 348. Torr. & Gray, Fl. 1. 149. Eat. & Wr. 343. Dietr. 2. 1016. Chapman, 38. Gray, Manual, 167.

P. nudata. Raf. Autikon Bot. 41.

P. Caroliniana. Michx. Fl. 1. 184. Persoon, 1. 331. Ait. f. Hort. Kew. 2. 177. Sims, Bot. Mag. **t. 1459.** Pursh, 208. Poir. Suppl. 4. 302. Elliott, 1. 371. Roem. & Schult. Syst. 6. 696. Goldie, Edinb. Phil. Trans. 6. 325. DC. Prodr. 1. 320. Torrey, Fl. U. S. 326; Fl. N. Y. 1. 83, **t. 11.** Spreng. Syst. 1. 950. Bigel. Fl. Bost. 2 ed. 129. Hook. Fl. Bor.-Am. 1. 83. Don, Mill. 1. 348. Beck, Bot. 43. Maund, Bot. Gard. 12, **t. 550.** Torr. & Gray, Fl. 1. 149. Dietr. 2. 1016. Walp. Rep. 1. 231. Gray, Genera Ill. 1. 206, **t. 86**; Manual, 167; Am. Journ. Sci. 3. 2. 307; Am. Naturalist, 5. 649. Lesqx. Fl. Ark. 350. Chapman, 38.

P. palustris. Michx. Fl. 1. 184? Pursh, 208. Torrey, Fl. U. S. 326.

P. Americana. Muhl. Cat. 32. Eat. & Wr. 342.

P. ovata. Muhl. Cat. 32.

? *P. ovata*, var. (?) *Belvisii.* DC. Prodr. 1. 320. Don, Mill. 1. 348.

P. rotundifolia, grandiflora, glauca & repanda. Raf. Autikon Bot. 41 & 42.

Var. *3.* Hook. Journ. Bot. 1. 194. Torr. & Gray, Fl. 1. 149.

P. grandifolia. DC. Prodr. 1. 320. Don, Mill. 1. 348. Dietr. 2. 1016.

P. fimbriata. Koenig, Ann. Bot. 1. 391. DC. Prodr. 1. 320. Spreng. Syst. 1. 951. Hook. Fl. Bor.-Am. 1. 84; Bot. Misc. 1. 43, **t. 23.** Don, Mill. 1. 348. Torr. & Gray,

Fl. 1. 150. Eat. & Wr. 343. Dietr. 2. 1016. Torrey, Frem. Rep. 87. Pl. Bourgeau, 257. Gray, Proc. Acad. Philad. 1863, 58; Bot. Calif. 1. 202. Watson, King's Rep. 5. 97. Porter, Hayd. Rep. 1871, 483; Fl. Col. 41. Coulter, Hayd. Rep. 1872, 766. Rothr. Pl. Wheeler, 38.

P. Kotzebuei. Cham. & Schlecht. in Linnæa, 1. 549. Spreng. Syst. 1. 951. Hook. Fl. Bor.-Am. 1. 83, **t. 28**; Lond. Journ. Bot. 6. 73. Don, Mill. 1. 348. Torr. & Gray, Fl. 1. 149. Hook. & Arn. Bot. Beechey, 122. Eat. & Wr. 343. Dietr. 2. 1016. Ledeb. Fl. Ross. 1. 264. Hornem. Fl. Dan. 13, **t. 2286.** Walp. Rep. 1. 231. Seem. Bot. Herald, 25. Lange, Pl. Groenl. 131. Ascherson, Regensb. Flora, 43. 370. Regel, Fl. Ost-Sib. 1. 264. Hook. f. Arct. Pl. 291 & 328. Pl. Bourgeau, 257. Gray, Proc. Acad. Philad. 1863, 58. Rothr. Fl. Alask. 444.

P. palustris. Linn. Spec. 273. See syn. in Ledeb. Fl. Ross. 1. 262; Regel, Fl. Ost-Sib. 1. 259; Miquel, Ann. Mus. Lugd.-Bat. 3. 97; Pritzel, Index Icon. Bot. 861. — Schrank, Pfl. Lab. 13. Richard. Frankl. Journ. 7. Cham. & Schlecht. in Linnæa, 1. 549. Hook. Fl. Bor.-Am. 1. 82. Meyer, Fl. Lab. 88. Beck, Bot. 43. Hook. & Arn. Bot. Beechey, 122. Torr. & Gray, Fl. 1. 148. Eat. & Wr. 343. Seem. Bot. Herald, 25 & 51. Hook. f. Arct. Pl. 291. Pl. Bourgeau, 257. Rothr. Fl. Alask. 444. Matthew, Fl. Acad. 15. Gray, Manual, 167; Am. Journ. Sci. 3. 2. 307; Bot. Calif. 1. 202. Porter, Hayd. Rep. 1871, 482.

Var. **Californica.** Gray, Bot. Calif. 1. 202.

P. parviflora. DC. Prodr. 1. 320. Hook. Fl. Bor.-Am. 1. 82, **t. 27.** Don, Mill. 1. 348. Torr. & Gray, Fl. 1. 149; Pac. R. Rep. 2. 126. Eat. & Wr. 343. Dietr. 2. 1016. Torrey, Frem. Rep. 87; Bot. Wilkes, 310. Gray, Proc. Acad. Philad. 1863, 58; Manual, 166. Watson, King's Rep. 5. 97 & 420. Porter, Hayd. Rep. 1871, 483; Fl. Col. 41. Coulter, Hayd. Rep. 1872, 766. Gillman, Am. Naturalist, 8. 305. Rothr. Pl. Wheeler, 38. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 325.

PHILADELPHUS CORONARIUS, Linn. Gray, Manual, 166.

P. Zeyheri & *verrucosus.* Schrader, DC. Prodr. 3. 205; Linnæa, 12. 390 & 392; fide Maximowicz, Rev. Hydrang. in Mém. Acad. Peters. 7. 10. 38, & Ind. Sem. Petrop. 1866, 4. Don, Mill. 2. 807. Loud. Arb. 2. 952, **f. 675.**

P. Gordonianus. Lindl. Bot. Reg. 24, Misc. 21; 25, **t. 32.** Torr. & Gray, Fl. 1. 595. Walp. Rep. 2. 151. Dietr. 3. 81. Cooper, Pac. R. Rep. 12. 30 & 62. Gray, Bot. Calif. 1. 202. Referred to *P. Lewisii* by Torrey, Bot. Wilkes, 312.

P. grandiflorus. Willd. Enum. 511. Pursh, 329. Poir. Suppl. 5. 135. Elliott, 1. 538. Spreng. Syst. 2. 493. Guimp. Otto & Hayne, **t. 44.** Schrader, DC. Prodr. 3. 206; Linnæa, 12. 395. Sweet, Brit. Fl. Gard. 2 ser. **t. 8.** Don, Mill. 2. 808. Spach, Hist. Veg. 5. 16. Torr. & Gray, Fl. 1. 595. Eat. & Wr. 354. Dietr. 3. 81. Loud. Arb. 2. 954, **f. 676.** Curtis, Bot. N. Car. 101. Chapman, 156. Schnizl. Icon. **t. 265, f. 14–21** (fruit). Wood, Cl.-Book, 374. Maximowicz, Il. ce. 43 & 5.

P. inodorus. Michx. Fl. 1. 283. Poir. Dict. 7. 119. Salisb. Parad. Lond. t. 123.

P. speciosus. Schrader, DC. Prodr. 3. 206; Linnæa, 12. 397. Don, Mill. 2. 807. Lindl. Bot. Reg. 23, **t. 2003.**

P. inodorus, var. *grandiflorus.* Gray, Manual, 166. Wood, Bot. & Fl. 116.

Var. **laxus.** Torr. & Gray, Fl. 1. 595. Dietr. 3. 81.

P. laxus. Schrader, DC. Prodr. 3. 206; Linnæa, 12. 398. Don, Mill. 2. 807. Lindl. Bot. Reg. 25, **t. 39.** Loud. Arb. 2. 954, **f. 677.**

Var. **floribundus.** Torr. & Gray, Fl. 1. 595. Dietr. 3. 81. Loud. Arb. 2. 953, **f. 676.**

P. inodorus. Barton, Elem. Bot. Appx. 28, **t. 18.**

P. grandiflorus. Ker, Bot. Reg. 7, t. **570**.

P. floribundus & *latifolius.* Schrader, DC. Prodr. 3. 205 & 206; Linnæa, 12. 391 & 394. Don, Mill. 2. 807. Spach, Hist. Veg. 5. 15 & 16.

P. coronarius, vars. *floribundus* & *latifolius.* Maximowicz, ll. cc. 42 & 4.

P. hirsutus. Nutt. Genera, 1. 301. Spreng. Syst. 2. 493. DC. Prodr. 3. 206. Sweet, Brit. Fl. Gard. 2 ser. t. **119**. Don, Mill. 2. 808. Spach, Hist. Veg. 5. 17. Lindl. Bot. Reg. 24, t. **14**. Torr. & Gray, Fl. 1. 595. Eat. & Wr. 354. Dietr. 3. 81. Loud. Arb. 2. 954, f. **678**. Curtis, Bot. N. Car. 101. Chapman, 156. Hook. Bot. Mag. t. **5334**.

P. trinervius. Schrader, Linnæa, 12. 399.

P. inodorus, var. *hirsutus.* Wood, Bot. & Fl. 116.

P. inodorus. Linn. Spec. 470. Marsh. Arbust. 99. Walter, 146. Willd. Spec. 2. 948. Nouv. Duham. 1. 71. Persoon, 2. 24. Ait. f. Hort. Kew. 3. 180. Sims, Bot. Mag. t. **1478**. Pursh, 329. Elliott, 1. 538. Spreng. Syst. 2. 493. DC. Prodr. 3. 206. Don, Mill. 2. 808. Spach, Hist. Veg. 5. 18. Schrader, Linnæa, 12. 401. Torr. & Gray, Fl. 1. 594. Eat. & Wr. 354. Dietr. 3. 81. Loud. Arb. 2. 952, f. **674**. Leavenworth, Am. Journ. Sci. 1. 49. 130. Chapman, 156. Gray, Manual, 166, excl. var.

Syringa inodora. Moench, Meth. 678.

P. Lewisii. Pursh, 329. Poir. Suppl. 5. 135. Spreng. Syst. 2. 493. DC. Prodr. 3. 206. Hook. Fl. Bor.-Am. 1. 220; Lond. Journ. Bot. 6. 231. Don, Mill. 2. 808. Spach, Hist. Veg. 5. 18. Torr. & Gray, Fl. 1. 595. Eat. & Wr. 354. Dietr. 3. 81. Cooper, Pac. R. Rep. 12. 62. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 202. Torrey, Bot. Wilkes, 312.

P. grandiflorus, var. ? Maximowicz, ll. cc. 43 & 5.

Var. **Californicus.** Gray, Bot. Calif. 1. 202.

P. Californicus. Benth. Pl. Hartw. 309. Walp. Ann. 2. 614 & 7. 903. Torrey, Pac. R. Rep. 4. 90. Lemaire, Ill. Hort. 5, Misc. 65. Boland. Cat. 11.

P. Lewisii, var. *parvifolius.* Torrey, Pac. R. Rep. 4. 90.

P. microphyllus. Gray, Pl. Fendl. 54. Walp. Ann. 2. 614. Porter, Fl. Col. 41.

P. serpyllifolius. Gray, Pl. Wright. 1. 77 & 2. 64. Walp. Ann. 4. 821. Torrey, Mex. Bound. 69. Referred to *P. Mexicanus*, Schlecht., by Seemann in Bot. Herald, 294.

RIBES aureum. Pursh, 164. Ker, Bot. Reg. 2, t. **125**. Poir. Suppl. 5. 696. Bradb. Cat. 336. Nutt. Genera, 1. 140; Journ. Acad. Philad. 7. 26. Roem. & Schult. Syst. 5. 497. James, Cat. 177; Long's Exped. 2. 185. Spreng. Syst. 1. 811. Guimp. Otto & Hayne, t. **2**. Wendland in Bartl. & Wendl. Beitr. Bot. 2. 17. Torrey, Ann. Lyc. N. Y. 2. 203; Nicol. Rep. 150; Sitgr. Rep. 160; Marcy's Rep. 286; Bot. Wilkes, 306. Lindl. Trans. Hort. Soc. 7. 241 (Litt.-Ber. zu Linnæa, 1830, 109). Berlandier, Mém. Soc. Genève, 3^2, t. **2**, f. **23**; DC. Prodr. 3. 483. Maund, Bot. Gard. 4, t. **189**. Hook. Fl. Bor.-Am. 1. 235; Lond. Journ. Bot. 6. 229. Don, Mill. 3. 191. Torr. & Gray, Fl. 1. 552; Pac. R. Rep. 2. 165. Dietr. 1. 852. Eat. & Wr. 395. Walp. Rep. 2. 361. Loud. Arb. 2. 989, f. **742**, **743**. Gray, Pl. Fendl. 54; Pac. R. Rep. 12. 43; Ives's Rep. 15; Proc. Acad. Philad. 1863, 61; Bot. Calif. 1. 207. Engelm. Pl. Upp. Miss. 193. Wood, Cl.-Book, 301; Bot. & Fl. 117. Pl. Bourgeau, 257. Watson, King's Rep. 5. 100; Pl. Wheeler, 9. Porter, Hayd. Rep. 1871, 481; Fl. Col. 42. Rothr. Pl. Wheeler, 38.

R. longiflorum. Nutt. in Fraser's Cat. 1813.

R. odoratum. Wendland, l. c. 2. 15.

R. ebracteatum. Berlandier, Mém. Soc. Genèv. 3^2. 60, t. **2**, f. **24**.

R. flavum. Colla, Hort. Ripul. Appx. 3. 2, **t. 1, B**, in Mem. Accad. Torin. 33 (Litt.-Ber. zu Linnæa, 1829, 57). Berland. in DC. Prodr. 3. 483. Don, Mill. 3. 191. Loud. Arb. 2. 900.

R. fragrans. Lodd. Bot. Cab. **t. 1533**

Chrysobotrya revoluta & intermedia. Spach, Ann. Sci. Nat. 2. 4. 18, **t. 1, A, B**; Hist. Veg. 6. 149, **t. 47, f. 2.** Nees, Pl. Neuwied, 10.

R. Oregoni. Herincq, Hortic. Franc. 1872, **t. 8** (Gard. Chronicle, 1874, 179).

Var. **tenuiflorum.** Torrey, Pac. R. Rep. 4. 88; Mex. Bound. 68.

R. tenuiflorum. Lindl. Trans. Hort. Soc. 7. 242; Bot. Reg. 15, **t. 1274** (Litt.-Ber. zu Linnæa, 1830, 104). Hook. Fl. Bor.-Am. 1. 235. Don, Mill. 3. 191. Hook. & Arn. Bot. Beechey, 345. Torr. & Gray, Fl. 1. 552. Eat. & Wr. 395. Walp. Rep. 2. 361. Loud. Arb. 2. 990, **f. 744.** Gray, Pl. Wright. 2. 63.

R. aureum. Colla, l. c.

Chrysobotrya Lindleyana. Spach, Ann. Sci. Nat. 2. 4. 20, **t. 1, C**; Hist. Veg. 6. 151.

R. bracteosum. Dougl.; Hook. Fl. Bor.-Am. 1. 233. Bongard, Veg. Sitch. 138 (Presl, Repert. Bot. 1. 314). Don, Mill. 3. 186. Torr. & Gray, Fl. 1. 550. Dietr. 1. 852. Eat. & Wr. 395. Walp. Rep. 2. 359. Ledeb. Fl. Ross. 2. 201. Cooper, Pac. R. Rep. 12. 31 & 61. Rothr. Fl. Alask. 446. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 206. Maximowicz, Bull. Acad. Petersb. 19. 253 (Mél. Biolog. 9. 222).

R. cereum. Dougl. in Trans. Hort. Soc. 7. 312. Lindl. Bot. Reg. 15, **t. 1263.** Hook. Fl. Bor.-Am. 1. 234; Bot. Mag. **t. 3008**; Lond. Journ. Bot. 6. 228. Don, Mill. 3. 190. Torr. & Gray, Fl. 1. 551. Dietr. 1. 852. Eat. & Wr. 395. Walp. Rep. 2. 359. Loud. Arb. 2. 986, **f. 737.** Torrey, Frem. Rep. 90; Emory's Rep. 408; Sitgr. Rep. 160; Bot. Wilkes, 305. Gray, Pl. Fendl. 53; Ives's Rep. 15; Am. Journ. Sci. 2. 33. 408; Proc. Acad. Philad. 1863, 61; Bot. Calif. 1. 207. Cooper, Pac. R. Rep. 12. 30. Watson, King's Rep. 5. 99; Pl. Wheeler, 8. Porter, Hayd. Rep. 1871, 482; Fl. Col. 42. Rothr. Pl. Wheeler, 38.

R. resinosum. James, Cat. 177.

R. inebrians. Lindl. Bot. Reg. 17, **t. 1471.** Don, Mill. 3. 190. Dietr. 1. 852. Loud. Arb. 2. 34, **f. 736.**

R. reniforme. Nuttall, Journ. Acad. Philad. 7. 25.

Cerophyllum Douglasii. Spach, Hist. Veg. 6. 153.

R. balsamifera. Kellogg, Proc. Calif. Acad. 2. 94, **f. 25.**

Var. **pedicellare.** Gray, Bot. Calif. 1. 207.

R. Cynosbati. Linn. Spec. 202. Jacquin, Hort. Vindob. 2, **t. 123.** Marsh. Arbust. 133. Lam. Dict. 3. 51. Ait. Hort. Kew. 1. 281. Moench, Meth. 684. Willd. Spec. 1. 1159. Michx. Fl. 1. 110. Nouv. Duham. 3. 232. Persoon, 1. 252. Pursh, 166. Roem. & Schult. Syst. 5. 506. Torrey, Fl. U. S. 270; Fl. N. Y. 1. 246. Bigel. Fl. Bost. 2 ed. 91. Spreng. Syst. 1. 812. Guimp. Otto & Hayne, **t. 135.** Berlandier, Mém. Soc. Genèv. 3², **t. 1, f. 3**; DC. Prodr. 3. 479. Hook. Fl. Bor.-Am. 1. 230. Don, Mill. 3. 178. Beck, Bot. 137. Torr. & Gray, Fl. 1. 545. Dietr. 1. 853. Eat. & Wr. 395. Nees, Pl. Neuwied, 10. Loud. Arb. 2. 970, **f. 719.** Emerson, Trees of Mass. 420. Richard. Arct. Exped. 428. Parry, Pl. Minn. 612. Curtis, Bot. N. Car. 84. Chapman, 145. Gray, Manual, 164; Am. Naturalist, 10. 272 (Gard. Chronicle, 9. 485).

R. gracile. Torrey, Fl. U. S. 269.

Grossularia Cynosbati. Spach, Hist. Veg. 6. 178.

R. oxyacanthoides, var. γ. Torr. & Gray, Fl. 1. 546.

R. oxyacanthoides. Pl. Bourgeau, 256.

R. divaricatum. Dougl. in Trans. Hort. Soc. 7. 515. Lindl. Bot. Reg. 16, under t. 1349, & **t. 1359.** Hook. Fl. Bor.-Am. 1. 231; Lond. Journ. Bot. 6. 229. Don, Mill. 3. 178. Torr. & Gray, Fl. 1. 547. Dietr. 1. 852. Eat. & Wr. 396. Walp. Rep. 2. 357. Loud. Arb. 2. 970, **f. 720.** Benth. Pl. Hartw. 311. Gray, Pl. Fendl. 53; Proc. Am. Acad. 8. 383; Am. Naturalist, 10. 273 (Gard. Chronicle, 9. 485); Bot. Calif. 1. 205. Richard. Arct. Exped. 428. Torrey, Pac. R. Rep. 4. 88; Mex. Bound. 68; Bot. Wilkes, 304. Newberry, Pac. R. Rep. 6. 74. Cooper, same, 12. 30 & 61. Bolander, Proc. Calif. Acad. 3. 80; Cat. 11.

Grossularia divaricata. Spach, Hist. Veg. 6. 177.

R. triflorum. Hook. & Arn. Bot. Beechey, 346.

R. villosum. Nutt.; Torr. & Gray, Fl. 1. 547. Walp. Rep. 2. 357.

Var. **irriguum.** Gray, Am. Naturalist, 10. 273; Bot. Calif. 1. 206.

R. irriguum. Dougl. in Trans. Hort. Soc. 7. 516. Hook. Fl. Bor.-Am. 1. 231. Lindl. Bot. Reg. 16, under t. 1349. Don, Mill. 3. 178. Torr. & Gray, Fl. 1. 547. Eat. & Wr. 396. Walp. Rep. 2. 358. Loud. Arb. 2. 971, **f. 721.** Torrey, Frem. Rep. 90; Sitgr. Rep. 160. Watson, King's Rep. 5. 98. Porter, Fl. Col. 42.

Grossularia irrigua. Spach, Hist. Veg. 6. 179.

R. triflorum. Hook. in Lond. Journ. Bot. 6. 228.

R. floridum. L'Her. Stirp. 1. 4 (Ehrh. Beitr. 6. 119). Ait. Hort. Kew. 1. 280. Willd. Spec. 1. 1156; Enum. 262. Pursh, 164. Roem. & Schult. Syst. 5. 499. Richard. Frankl. Journ. 6; Arct. Exped. 429. Bigel. Fl. Bost. 2 ed. 90. Torrey, Fl. U. S. 267; Fl. N. Y. 1. 248; Nicol. Rep. 150. Guimp. Otto & Hayne, **t. 1.** Spreng. Syst. 1. 811. Berland. Mém. Soc. Genèv. 3², **t. 2, f. 22**; DC. Prodr. 3. 483. Hook. Fl. Bor.-Am. 1. 233. Don, Mill. 3. 190. Beck, Bot. 130. Darling. Fl. Cestr. 160. Torr. & Gray, Fl. 1. 549. Dietr. 1. 852. Eat. & Wr. 394. Nees, Pl. Neuwied, 10. Loud. Arb. 2. 985, **f. 735.** Emerson, Trees of Mass. 422. Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 193. Tuckerman, Josselyn's Rarities, 82. Gray, Pac. R. Rep. 12. 43; Manual, 165. Lesqx. Fl. Ark. 361. Pl. Bourgeau, 256. Porter, Fl. Col. 42.

R. nigrum, var. **β.** Linn. Spec. 201.

R. nigrum, var. *Pennsylvanicum.* Marshall, Arbust. 132.

R. Pennsylvanicum. Lam. Dict. 3. 49. Persoon, 1. 251. Nouv. Duham. 3. 229.

R. campanulatum. Moench, Meth. 683.

R. recurvatum. Michx. Fl. 1. 109. Persoon, 1. 251. Pursh, 164. Poir. Suppl. 5. 690. Roem. & Schult. Syst. 5. 498. Berland. l. c. 3. 482. Dietr. 1. 851.

Coreosma florida. Spach, Ann. Sci. Nat. 2. 4. 22; Hist. Veg. 6. 157.

R. gracile. Michx. Fl. 1. 111. Persoon, 1. 252. Poir. Suppl. 2. 857. Spreng. Syst. 1. 812. Torr. & Gray, Fl. 1. 546. Eat. & Wr. 395. Chapman, 145. Wood, Cl.-Book, 362. Gray, Am. Naturalist, 10. 272 (Gard. Chron. 9. 485).

R. niveum. Lindl. Bot. Reg. 20, **t. 1692** (Litt.-Ber. zu Linnæa, 1835, 56). Torr. & Gray, Fl. 1. 548. Walp. Rep. 2. 358. Loud. Arb. 2. 969, **f. 718.** Cooper, Pac. R. Rep. 12. 30 & 61.

? *R. triflorum.* Hook. Fl. Bor.-Am. 1. 230.

Grossularia nivea. Spach, Hist. Veg. 6. 179.

R. Missouriense. Nutt.; Torr. & Gray, Fl. 1. 548. Walp. Rep. 2. 358. Torrey, Nicol. Rep. 150.

R. rotundifolium, var. Engelm. Pl. Upp. Miss. 193.

R. Hudsonianum. Richard. Frankl. Journ. 2 ed. 6; Arct. Exped. 429. Hook. Fl. Bor.-Am. 1. 233; Lond. Journ. Bot. 6. 228. Don, Mill. 3. 190. Torr. & Gray, Fl. 1. 549. Eat. & Wr. 395. Walp. Rep. 2. 359. Loud. Arb. 2. 987. Hook. f. Arct. Pl. 291. Rothr. Fl. Alask. 446. Gray, Bot. Calif. 1. 206.

R. nigrum. Richard. Frankl. Journ. 1 ed. 6.

R. bracteosum. Watson, King's Rep 5. 99. Porter, Hayd. Rep. 1871, 482. Coulter, same, 1872, 766.

Var. β. Hook. Fl. Bor.-Am. 233. Torr. & Gray, l. c.

R. petiolare. Dougl. in Trans. Hort. Soc. 7. 514. Lindl. Bot. Reg. 16, under t. 1349.

R. lacustre. Poir. Suppl. 2. 856. Pursh, 165. Nutt. Genera, 1. 140. Roem. & Schult. Syst. 5. 506. Bigel. Fl. Bost. 2 ed. 91. Torrey, Fl. U. S. 270; Fl. N. Y. 1. 247; Nicol. Rep. 150; Frem. Rep. 90; Bot. Wilkes, 305. Lodd. Bot. Cab. t. **884.** Spreng. Syst. 1. 812. Guimp. Otto & Hayne, t. **136.** Berlandier, DC. Prodr. 3. 478. Hook. Fl. Bor.-Am. 1. 232; Lond. Journ. Bot. 6. 228. Don, Mill. 3. 178. Beck, Bot. 136. Spach, Hist. Veg. 6. 164. Torr. & Gray, Fl. 1. 548. Dietr. 1. 853. Eat. & Wr. 395. Loud. Arb. 2. 976, f. **724.** Emerson, Trees of Mass. 421. Richard. Arct. Exped. 428. Seem. Bot. Herald, 52. Newberry, Pac. R. Rep. 6. 74. Cooper, same, 12. 31 & 61. Hook. f. Arct. Pl. 291. Pl. Bourgeau, 256. Rothr. Fl. Alask. 446. Gray, Manual, 165; Am. Naturalist, 10. 270 (Gard. Chronicle, 9. 484). Watson, King's Rep. 5. 98. Porter, Hayd. Rep. 1871, 482; Fl. Col. 42. Coulter, Hayd. Rep. 1872, 766. Maxim. in Bull. Acad. Petersb. 19. 256 (Mélang. Biolog. 9. 226).

R. oxyacanthoides. Marsh. Arbust. 132? Michx. Fl. 1. 111. Persoon, 1. 252.

R. oxyacanthoides, var. *lacustre.* Persoon, 1. 252.

R. echinatum. Dougl.; Lindl. Bot. Reg. 16, under t. 1349.

Var. **parvulum.** Gray, Bot. Calif. 1. 206.

R. palustre, var. Gray, Am. Journ. Sci. 2. 33. 400. Watson, King's Rep. 5. 99. Coulter, Hayd. Rep. 1872, 766. Rothr. Pl. Wheeler, 38.

R. setosum. Gray, Proc. Am. Acad. 8. 383.

Var. **molle.** Gray, Bot. Calif. 1. 206.

R. laxiflorum. Pursh, 731. See syn. in Ledeb. Fl. Ross. 2. 200 (under *R. affine*); Maximowicz, l. c. 257 (227). — Poir. Suppl. 5. 696. Roem. & Schult. Syst. 5. 499. Spreng. Syst. 1. 810. Berlandier, DC. Prodr. 3. 482. Torr. & Gray, Fl. 1. 550. Dietr. 1. 852. Eat. & Wr. 395. Cooper, Pac. R. Rep. 12. 31 & 61. Rothr. Fl. Alask. 446. Gray, Bot. Calif. 1. 206.

R. Americanum. Pall. Fl. Ross. 234.

R. palustre, var. β. Hook. Fl. Bor.-Am. 1. 232.

R. affine. Dougl.; Bongard, Veg. Sitch. 138 (Presl, Repert. Bot. 1. 315). Dietr. 1. 852. Ledeb. Fl. Ross. 2. 200.

R. leptanthum. Gray, Pl. Fendl. 53; Pl. Wright. 2. 63; Proc. Acad. Philad. 1863, 61; Am. Naturalist, 10. 271 (Gard. Chronicle, 9. 484); Bot. Calif. 1. 205. Walp. Ann. 2. 687. Torrey, Pac. R. Rep. 4. 88; Mex. Bound. 68. Watson, King's Rep. 5. 98, in part; Pl. Wheeler, 8. Porter, Fl. Col. 42. Rothr. Pl. Wheeler, 38.

Var. **brachyanthum.** Gray, Bot. Calif. 1. 205.

R. leptanthum. Watson, King's Rep., mostly.

R. Lobbii. Gray, Am. Nat. 10. 274 (Gard. Chronicle, 9. 485); Bot. Calif. 1. 205.

R. subvestitum. Hook. Bot. Mag. t. **4931**, not Hook. & Arn.

R. Menziesii. Pursh, 732. Poir. Suppl. 5. 696. Roem. & Schult. Syst. 5. 507. Spreng. Syst. 1. 812. Berlandier, DC. Prodr. 3. 478. Hook. Fl. Bor.-Am. 1. 229. Don, Mill. 3. 185. Lindl. Bot. Reg. 34, Misc. 25, & 33, t. **56.** Hook. & Arn. Bot. Beechey, 141 & 345. Torr. & Gray, Fl. 1. 545. Dietr. 1. 853. Eat. & Wr. 394. Benth. Bot. Sulph. 17. Newberry, Pac. R. Rep. 6. 74. Torrey, Mex. Bound. 68. t. **23**; Bot. Wilkes, 304. Boland. Cat. 11. Gray, Bot. Calif. 1. 204.

R. ferox. Smith, Rees Cyc. Berlandier, DC. Prodr. 3. 478. Dietr. 1. 853.

R. Californicum. Hook. & Arn. Bot. Beechey, 346. Torr. & Gray, Fl. 1. 548. Walp. Rep. 2. 358. Gray, Pac. R. Rep. 4. 88. Torrey, same, 7. 11; Mex. Bound. 68; Bot. Wilkes, 304. Anderson, Cat. Pl. Nev. 120.

R. occidentale. Hook. & Arn. l. c. Torr. & Gray, l. c. Walp. Rep. 2. 358. Benth. Pl. Hartw. 311.

R. subvestitum. Hook. & Arn. l. c. Torr. & Gray, Fl. 1. 545. Walp. Rep. 2. 357. Bolander, Proc. Calif. Acad. 1. 54 & 67; Cat. 11.

R. oxyacanthoides. Linn. Spec. 201. Lam. Dict. 3. 51. Ait. Hort. Kew. 1. 281. Willd. Spec. 1. 1159. Nouv. Duham. 3. 232. Pursh, 165. Roem. & Schult. Syst. 5. 506. Torrey, Fl. U. S. 270; Pac. R. Rep. 4. 88. Spreng. Syst. 1. 812. Berland. Mém. Soc. Genèv. 3², **t. 1, f. 1**; DC. Prodr. 3. 478. Don, Mill. 3. 177. Beck, Bot. 130. Torr. & Gray, Fl. 1. 546, excl. var. Eat. & Wr. 395. Walp. Rep. 2. 357. Loud. Arb. 2. 968, **t. 715**. Hook. in Lond. Journ. Bot. 6. 228. Porter, Hayd. Rep. 1871, 482. Gray, Am. Naturalist, 10. 273 (Gard. Chronicle, 9. 485); Bot. Calif. 1. 206.

R. hirtellum. Michx. Fl. 1. 111. Persoon, 1. 252. Poir. Suppl. 2. 857. Pursh, 163. Roem. & Schult. Syst. 5. 501. Spreng. Syst. 1. 812. Berlandier, DC. Prodr. 3. 479. Hook. Fl. Bor.-Am. 1. 231. Don, Mill. 3. 178. Beck, Bot. 136. Torr. & Gray, Fl. 1. 546. Dietr. 1. 853. Eat. & Wr. 395. Loud. Arb. 2. 971. Emerson, Trees of Mass. 420. Richard. Arct. Exped. 428. Engelm. Pl. Upp. Miss. 193. Tuckerman, Josselyn's Rarities, 77. Gray, Pac. R. Rep. 12. 43; Am. Journ. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 61; Manual, 164. Pl. Bourgeau, 256. Watson, King's Rep. 5. 97. Porter, Hayd. Rep. 1871, 482; Fl. Col. 42. Torrey, Bot. Wilkes, 305. Rothr. Pl. Wheeler, 38.

? *R. triflorum.* Bigel. Fl. Bost. 2 ed. 90. Torrey, Emory's Rep. 408.

R. saxosum. Hook. Fl. Bor.-Am. 1. 231. Don, Mill. 3. 178. Eat. & Wr. 396. Richard. Arct. Exped. 428.

Grossularia oxyacanthoides & *hirtella.* Spach, Hist. Veg. 6. 175 & 180.

R. irriguum. Gray, Pl. Fendl. 53.

? *R. rotundifolium.* Engelm. Pl. Upp. Miss. 193. Gray, Pac. R. Rep. 12. 43.

R. prostratum. L'Her. Stirp. 1. 3, **t. 2** (Ehrh. Beitr. 6. 119). Lam. Dict. 3. 50. Persoon, 1. 251. Nouv. Duham. 3. 229. Pursh, 163. Roem. & Schult. Syst. 5. 495. Torrey, Fl. U. S. 1. 268; Fl. N. Y. 1. 248. Spreng. Syst. 1. 810. Berlandier, Mém. Soc. Genèv. 3², **t. 2, f. 12**; DC. Prodr. 3. 482. Hook. Fl. Bor.-Am. 1. 232, excl. var. Don, Mill. 3. 186. Beck, Bot. 136. Schlecht. Fl. Lab. in Linnæa, 10. 96. Spach, Hist. Veg. 6. 166. Torr. & Gray, Fl. 1. 549. Dietr. 1. 851. Eat. & Wr. 395. Loud. Arb. 2. 981, **f. 731**. Emerson, Trees of Mass. 422. Richard. Arct. Exped. 429. Curtis, Bot. N. Car. 85. Chapman, 145. Gray, Am. Journ. Sci. 2. 33. 408; Manual, 165; Bot. Calif. 1. 206. Watson, King's Rep. 5. 99. Porter, Hayd. Rep. 1871, 482; Fl. Col. 42.

R. glandulosum. Ait. Hort. Kew. 1. 279. Schmidt, Arb. 2, **t. 95**. Willd. Spec. 1. 1154. Richard. Frankl. Journ. 1 ed. 6. Eat. & Wr. 394.

R. rigens. Michx. Fl. 1. 110. Persoon, 1. 251. Poir. Suppl. 2. 854. Pursh, 163. Roem. & Schult. Syst. 5. 494. Bigel. Fl. Bost. 2 ed. 90. Torrey, Fl. U. S. 268. Spreng. Syst. 1. 810. Berlandier, DC. Prodr. 3. 482. Don, Mill. 3. 187. Beck, Bot. 135. Dietr. 1. 851. Eat. & Wr. 394. Loud. Arb. 2. 982.

R. trifidum. Michx. Fl. 1. 110. Persoon, 1. 251. Poir. Suppl. 2. 853. Pursh, 163. Roem. & Schult. Syst. 5. 494. Torrey, Fl. U. S. 268. Spreng. Syst. 1. 811. Berlandier, DC. Prodr. 3. 481. Hook. Fl. Bor.-Am. 1. 232. Don, Mill. 3. 186. Beck, Bot. 135. Dietr. 1. 851. Eat. & Wr. 394. Loud. Arb. 2. 981.

R. laxiflorum. Richard. Frankl. Journ. 1 ed. 7.

? *R. alpinum.* Hook. f. Arct. Pl. 291, as to hab. Labrador.

R. Hudsonianum. Pl. Bourgeau, 256.

R. resinosum. Pursh, 163. Sims, Bot. Mag. **t. 1583.** Poir. Suppl. 5. 695. Roem. & Schult. Syst. 5. 499. Spreng. Syst. 1. 810. Berlandier, l. c. 3^2, **t. 2, f. 10**; DC. Prodr. 3. 480. Don, Mill. 3. 186. Torr. & Gray, Fl. 1. 550. Dietr. 1. 850. Eat. & Wr. 396. Loud. Arb. 2. 981, **f. 732.** Curtis, Bot. N. Car. 85. Chapman, 145. Wood, Cl.-Book, 361; Bot. & Fl. 117. — Probably not American; referred to *R. villosum*, Roxb., by Braun, Ind. Sem. h. Berol. 1855, Appx. 16, and to *R. orientale*, Desf., by Koch, Dendrol. 1. 656, and Maximowicz, Bull. Acad. Petersb. 19. 267 (Mélang. Biolog. 9. 242).

R. rotundifolium. Michx. Fl. 1. 110. Persoon, 1. 252. Poir. Suppl. 2. 857. Pursh, 165. Elliott, 1. 295. Spreng. Syst. 1. 812. Berlandier, DC. Prodr. 3. 478. Don, Mill. 3. 178. Torr. & Gray, Fl. 1. 547. Dietr. 1. 853. Eat. & Wr. 396. Torrey, Fl. N. Y. 1. 247. Emerson, Trees of Mass. 421. Richard. Arct. Exped. 428. Engelm. Pl. Upp. Miss. 193. Curtis, Bot. N. Car. 85. Chapman, 145. Gray, Manual, 164; Am. Naturalist, 10. 272 (Gard. Chronicle, 9. 485).

R. triflorum. Willd. Hort. Berol. **t. 61** (Schrad. Journ. Bot. 1807, 126); Enum 263. Poir. Suppl. 2. 857. Pursh, 165. Roem. & Schult. Syst. 5. 501. Torrey, Fl U. S. 269. Spreng. Syst. 1. 812. Lodd. Bot. Cab. **t. 1094.** Berlandier, l. c 3^2, **t. 1, f. 4**; DC. Prodr. 3. 479. Guimp. Otto & Hayne, **t. 3.** Don, Mill. 3. 177. Beck, Bot. 136. Eat. & Wr. 395. Loud. Arb. 2. 969, **f. 717.**

R. stamineum. Hornemann, Hort. Hafn. 337.

R. gracile. Pursh, 165. Roem. & Schult. Syst. 5. 501. Elliott, 1. 296. Berlandier, DC. Prodr. 3. 479. Don, Mill. 3. 178. Beck, Bot. 136. Dietr. 1. 853. Loud Arb. 2. 971. Curtis, Bot. N. Car. 85.

Grossularia triflora. Spach, Hist. Veg. 6. 176.

R. rubrum. Linn. Spec. 200. See syn. in Ledeb. Fl. Ross. 2. 199; Maximowicz, Bull. Acad. Petersb. 19. 261 (Mélang. Biolog. 9. 233). — Richard. Frankl. Journ. 2 ed. 6; Arct. Exped. 428. Hook. Fl. Bor.-Am. 1. 232. Torr. & Gray, Fl. 1. 550. Eat. & Wr. 396. Seem. Bot. Herald, 30. Tuckerman, Josselyn's Rarities, 82. Hook. f. Arct. Pl. 291. Pl. Bourgeau, 256. Rothr. Fl. Alask. 446. Gray, Manual, 165. Matthew, Fl. Acad. 15.

R. albinervium. Michx. Fl. 1. 110. Persoon, 1. 251. Poir. Suppl. 2. 855. Pursh, 163. Roem. & Schult. Syst. 5. 497. Torrey, Fl. U. S. 267; Bot. Wilkes, 305. Berlandier, DC. Prodr. 3. 482. Don, Mill. 3. 187. Beck, Bot. 135. Dietr. 1. 851. Eat. & Wr. 394. Loud. Arb. 2. 982.

Var. **subglandulosum.** Maxim. l. c. 261, referring to it all N. American forms.

R. sanguineum. Pursh, 164. Poir. Suppl. 5. 695. Roem. & Schult. Syst. 5. 497. Spreng. Syst. 1. 811. Berlandier, DC. Prodr. 3. 482. Dougl. in Trans. Hort. Soc. 7. 509, **t. 13.** Lodd. Bot. Cab. **t. 1487.** Hook. Fl. Bor.-Am. 1. 234; Bot. Mag. **t. 2335** (Ann. Sci. Nat. 2. 5. 291). Lindl. Bot. Reg. 16, **t. 1349.** Sweet, Brit. Fl. Gard. 2 ser., **t. 109.** Maund, Bot. Gard. 8, **t. 377.** Don, Mill. 3. 191. Paxton Mag. Bot. 1, **t. 31.** Torr. & Gray, Fl. 1. 551. Dietr. 1. 852. Eat. & Wr. 395. Loud. Arb. 2. 988, **f. 739–741.** Richard. Arct. Exped. 429. Newberry, Pac. R. Rep. 6. 74. Cooper, same, 12. 30 & 61. Torrey, Mex. Bound. 68; Bot. Wilkes. 306. Wood, Cl.-Book, 361; Bot. & Fl. 117. Anderson, Cat. Pl. Nevada, 120. Watson, King's Rep. 5. 100; Proc. Am. Acad. 11. 114. Boland. Cat. 11. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 207.

Calobotrya sanguinea. Spach, Ann. Sci. Nat. 2. 4. 21.

Coreosma sanguinea. Spach, Hist. Veg. 6. 155, **t. 47, f. 1.**

Var. **glutinosum.** Gray, Bot. Calif. 1. 207.

R. glutinosum. Benth. in Trans. Hort. Soc. 2. 1. 476. Maund, Bot. Gard. 13, t. **597.** Hook. & Arn. Bot. Beechey, 345. Torr. & Gray, Fl. 1. 551. Walp. Rep. 2. 360. Torrey, Pac. R. Rep. 4. 88. Cooper, same, 6. 74. Boland. Proc. Calif. Acad. 3. 80.

Var. **malvaceum.** Gray, Bot. Calif. 1. 207.

R. malvaceum. Smith, Rees. Cyc. Berlandier, DC. Prodr. 3. 483. D. Don, Sweet's Brit. Fl. Gard. 2 ser., t. **340.** Hook. & Arn. Bot. Beechey, 345. Torr. & Gray, Fl. 1. 552. Dietr. 1. 852. Benth. Bot. Sulph. 17; Pl. Hartw. 311. Torrey, Pac. R. Rep. 4. 88 & 7. 11; Mex. Bound. 68; Bot. Wilkes, 306. Kellogg, Proc. Calif. Acad. 1. 46. Bolander, same, 3. 80.

R. tubulosum. Eschscholtz, Mem. Acad. Petersb. 10. 283 (Litt.-Ber. zu Linnæa, 1828, 148; Presl, Repert. Bot. 1. 196). Cham. in Linnæa, 6. 568. Don, Mill. 3. 187. Dietr. 1. 852.

R. tubiflorum. Meyer, Mém. Acad. Mosc. 7. 140, t. **4.** Don, Mill. 3. 137.

R. sanguineum. Hook. & Arn. Bot. Beechey, 141.

Var. **variegatum.** Watson, King's Rep. 5. 100. Gray, Bot. Calif. 1. 207.

R. Nevadense. Kellogg, Proc. Acad. Calif. 1. 63.

R. Wolfii. Rothrock, Am. Naturalist, 8. 358; Pl. Wheeler, 38.

R. setosum. Lindl. in Trans. Hort. Soc. 7. 240 (Litt.-Ber zu Linnæa, 1830, 110); Bot. Reg. 15, t. **1237.** Hook. Fl. Bor.-Am. 1. 230. Don, Mill. 3. 177. Eat. & Wr. 396. Loud. Arb. 2. 969, f. **716.** Gray, Am. Naturalist, 10. 271 (Gard. Chronicle, 9. 485); Bot. Calif. 1. 206.

R. oxyacanthoides. Hook. Fl. Bor.-Am. 1. 230, excl. var. Richard. Arct. Exped. 428? Engelm. Pl. Upp. Miss. 193?

R. Cynosbati, var. γ. Hook. Fl. Bor.-Am. 1. 230.

R. oxyacanthoides, var. β. Torr. & Gray, Fl. 1. 546.

R. speciosum. Pursh, 732. Poir. Suppl. 5. 696. Roem. & Schult. Syst. 5. 507. Spreng. Syst. 1. 812. Berlandier, DC. Prodr. 3. 478. Lindl. Bot. Reg. 18, t. **1557.** D. Don, Sweet's Brit. Fl. Gard. 2 ser., t. **149.** Maund, Botanist, t. **38.** Don, Mill. 3. 185, f. **32.** Hook. Bot. Mag. t. **3530.** Hook. & Arn. Bot. Beechey, 345. Torr. & Gray, Fl. 1. 545. Dietr. 1. 853. Eat. & Wr. 396. Loud. Arb. 2. 974, f. **722.** Benth. Pl. Hartw. 311. Sweet, Orn. Fl. Gard. 1, t. **39.** Torrey, Pac. R. Rep. 6. 74; Mex. Bound. 68. Wood, Bot. & Fl. 117. Boland. Cat. 11. Gray, Am. Naturalist, 10. 274 (Gard. Chronicle, 9. 485); Bot. Calif. 1. 204.

R. stamineum. Smith, Rees Cyc. Berlandier, DC. Prodr. 3. 477. Hook. Fl. Bor.-Am. 1. 229. Dietr. 1. 853. Agardh, Theor. Syst. t. **12, f. 14.**

R. fuchsioides. Berlandier, Mém. Soc. Genèv. 3², t. **3.**

Robsomia speciosa. Spach, Hist. Veg. 6. 181.

R. tortuosum. Benth. Bot. Sulph. 17. Walp. Rep. 5. 822.

R. viscosissimum. Pursh, 163. Poir. Suppl. 5. 695. Roem. & Schult. Syst. 5. 499. Spreng. Syst. 1. 811. Berlandier, DC. Prodr. 3. 482. Dougl. in Trans. Hort. Soc. 7. 511. Hook. Fl. Bor.-Am. 1. 234, t. **76;** Lond. Journ. Bot. 6. 228. Don, Mill. 3. 191. Torr. & Gray, Fl. 1. 551. Dietr. 1. 852. Eat. & Wr. 395. Loud. Arb. 2. 987, f. **738.** Newberry, Pac. R. Rep. 6. 74. Watson, King's Rep. 5. 100; Pl. Wheeler, 8. Porter, Hayd. Rep. 1871, 482. Coulter, same, 1872, 766. Parry, Am. Naturalist, 9. 270. Gray, Bot. Calif. 1. 207.

Coreosma viscosissimum. Spach, Ann. Sci. Nat. 2. 4. 23.

R. affine; laxiflorum.
albinervium; rubrum.
alpinum; prostratum.
Americanum; laxiflorum.
balsamiferum; cereum.
bracteosum; Hudsonianum.
Californicum; Menziesii.
campanulatum; floridum.
Cynosbati; setosum.
ebracteatum; aureum.
echinatum; lacustre.
ferox; Menziesii.
flavum & fragrans; aureum.
fuchsioides; speciosum.
glandulosum; prostratum.
glutinosum; sanguineum.
gracile; Cynosbati, rotundifolium.
hirtellum; oxyacanthoides.
Hudsonianum; prostratum.
inebrians; cereum.
irriguum; divaricatum, oxyacanthoides.
laxiflorum; prostratum.
longiflorum; aureum.
malvaceum; sanguineum.
Missouriense; gracile.
R. Nevadense; sanguineum.
nigrum; floridum, Hudsonianum.
niveum; gracile.
occidentale; Menziesii.
odoratum & Oregoni; aureum.
oxyacanthoides; Cynosbati, lacustre, setosum.
palustre; lacustre, laxiflorum.
Pennsylvanicum; floridum.
petiolare; Hudsonianum.
recurvatum; floridum.
reniforme & resinosum; cereum.
rigens; prostratum.
rotundifolium; oxyacanthoides, gracile.
saxosum; oxyacanthoides.
setosum; lacustre.
stamineum; rotundifolium, speciosum.
substitutum; Lobbii, Menziesii.
tenuiflorum; aureum.
trifidum; prostratum.
triflorum; divaricatum, gracile, oxyacanthoides, rotundifolium.
tubiflorum & tubulosum; sanguineum.
villosum; divaricatum.
Wolfii; sanguineum.

SAXIFRAGA adscendens. Linn. Spec. 405. See syn. in Seringe, DC. Prodr. 4. 34 (under *S. controversa*); D. Don, Monogr. Saxifr. in Trans. Linn. Soc. 13. 441 (under *S. tridactylites*); Engler, Monogr. Saxifr. 84. — Hook. f. Arct. Pl. 292 & 329. Watson, King's Rep. 5. 93. Porter, Fl. Col. 38. Rothr. Pl. Wheeler, 38.

S. petræa. Hook. Fl. Bor.-Am. 1. 245; Bot. Mag. **t. 3026.** Don, Mill. 3. 225. Torr. & Gray, Fl. 1. 574. Eat. & Wr. 414. Dietr. 2. 1537.

S. controversa. Sternberg, Rev. Saxifr. 43, **t. 16** & **17, fig. d. c.** Gray, Proc. Acad. Philad. 1863, 62. Pl. Bourgeau, 256.

Ponista Oregonensis. Raf. Fl. Tellur. 2. 66.

S. tridactylites. Engler, l. c., as to American habitat.

S. aizoides. Linn. Spec. 403. See syn. in Sternb. Rev. Saxifr. 25 & Suppl. 2. 27; D. Don, Monogr. Saxifr. 375; Seringe, DC. Prodr. 4. 47; Ledeb. Fl. Ross. 2. 209; Engler, Monogr. Saxifr. 219. — Pursh, 312. Richard. Frankl. Journ. 9. Hook. Fl. Bor.-Am. 1. 255. Meyer, Pl. Lab. 69. Don, Mill. 3. 212. Torr. & Gray, Fl. 1. 565. Dietr. 2. 1529. Eat. & Wr. 414. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 192 (Kane's Exped. 2. 455). Lange, Pl. Groenl. 128. Hook. f. in Journ. Linn. Soc. 1. 121; Arct. Pl. 292. Pl. Bourgeau, 256. Gray, Manual. 168.

Evaizoon aizoides. Raf. Fl. Tellur. 2. 70.

S. Aizoon. Jacq. Fl. Austr. 5. 18, **t. 438.** See syn. in Sternb. Rev. Saxifr. D. Don, Monogr. Saxifr. 392; Seringe, DC. Prodr. 4. 19; Ledeb. Fl. Ross. 2. 1[illegible] Engler, Monogr. Saxifr. 241. — Pursh, 310. Schrank, Pfl. Lab. 21. Hook. F. Bor.-Am. 1. 243. Meyer, Pl. Lab. 67. Don, Mill. 3. 215. Torr. & Gray, Fl. 1. 500. Eat. & Wr. 412. Vahl, Fl. Dan. 14, **t. 2352.** Durand, Pl. Kane. l. c. 192 (44[illegible]). Lange, Pl. Groenl. 128. Hook. f. in Journ. Linn. Soc. 1. 117; Arct. Pl. 292 & 32[illegible]. Gray, Manual, 168. Matthew, Fl. Acad. 15. Wooster, Alp. Pl. 82, **t. 28, f. 1.**

S. bronchialis. Linn. Spec. 400. See syn. in Sternb. Rev. Saxifr. 31; Seringe, DC. Prodr. 4. 47; Ledeb. Fl. Ross. 2. 207; Middend. Fl. Taimyr. 41; Trautv. & Mey. Fl. Ochot. 41; Engler, l. c. 215. — Pursh, 310. Spreng. Syst. 2. 364. Torrey, Ann. Lyc. N. Y. 2. 204. Hook. Fl. Bor.-Am. 1. 254. Sternb. in Linnæa, 6. 555. Don, Mill. 3. 212. Torr. & Gray, Fl. 1. 564. Eat. & Wr. 413. Gray, Pl. Fendl. 54; Am. Journ. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 62. Seem. Bot. Herald, 31. Hook. f. Arct. Pl. 292. Pl. Bourgeau, 257. Rothr. Fl. Alask. 446; Pl. Wheeler, 38. Porter, Hayd. Rep. 1870, 475, & 1871, 482; Fl. Col. 39. Coulter, Hayd. Rep. 1872, 766.

Var. **cherlerioides.** Engler, Monogr. Saxifr. 216, with syn.

S. cherlerioides. D. Don, Monogr. Saxifr. 382. Sternb. Rev. Saxifr. Suppl. 2. 26, t. 13.

S. n. sp. Sternb. in Linnæa, 6. 555.

S. bronchialis, var. *minor.* Hook. & Arn. Bot. Beechey, 114.

S. Pseudo-Burseriana. Fischer; Torr. & Gray, Fl. 1. 565. Walp. Rep. 2. 365.

S. nitida. Ledeb. Fl. Ross. 2. 207, not Schreber. Rothr. Fl. Alask. 446.

S. bryophora. Gray, Proc. Am. Acad. 6. 533; Bot. Calif. 1. 194.

S. leucanthemifolia, var. *integrifolia.* Engler, Monogr. Saxifr. 135.

S. cæspitosa. Linn. Spec. 404, in part. See syn. in D. Don, Monogr. Saxifr. 428; Ledeb. Fl. Ross. 2. 224; Regel, Ind. Sem. Petrop. 1866, 99; Middend. Fl. Taimyr. 45; Hook. f. Arct. Pl. 292 & 329; Engler, Linnæa, 35. 42, and (as *S. decipiens*, Ehrh.) Monogr. Saxifr. 186; Baker, Seem. Journ. Bot. 8. 281. — Pursh, 312. Spreng. Syst. 2. 370. Hook. Fl. Bor.-Am. 1. 244. Don, Mill. 3. 222. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 565. Eat. & Wr. 415. Seem. Bot. Herald, 31 & 56. Hook. f. in Journ. Linn. Soc. 1. 117, 122 & 124, & 5. 83. Dickie, same, 3. 111 & 11. 33. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 192 (Kane's Exped. 2. 455). Ascherson, Regensb. Flora, 1860, 370. Pl. Bourgeau, 257. Rothr. Fl. Alask. 447. Watson, King's Rep. 5. 93 & 420. Porter, Fl. Col. 38.

S. androsacea. Pursh, 310. Poir. Suppl. 5. 77. Hook. Fl. Bor.-Am. 1. 244. Torr. & Gray, Fl. 1. 576. Eat. & Wr. 413. Ledeb. Fl. Ross. 2. 225. Rothr. Fl. Alask. 447.

S. pubescens. Sternb. in Linnæa, 6. 556.

S. exarata. Hook. Fl. Bor.-Am. 1. 244, excl. syn. Torr. & Gray, Fl. 1. 566. Eat. & Wr. 414. Rothr. Fl. Alask. 447.

S. exarata, var. *pubescens.* Ledeb. Fl. Ross. 2. 224, in part.

S. decipiens, var. *cæspitosa.* Engler, Monogr. Saxifr. 190.

Var. **uniflora.** Hook. Trans. Linn. Soc. 14. 370; Fl. Bor.-Am. 1. 244. Torr. & Gray, Fl. 1. 565. Durand, Pl. Kane. l. c. 192 (455); Pl. Hayes, Proc. Acad. Philad. 1863, 94. Gray, Am. Journ. Sci. 2. 33. 409.

S. venosa. Haworth, Enum. Sax. 28. Seringe, DC. Prodr. 4. 26. Hook. Fl. Bor.-Am. 1. 244. Don, Mill. 3. 224. Dietr. 2. 1536.

S. cæspitosa. R. Brown, Ross' Voy. 2 ed. 2. 192. Seringe, DC. Prodr. 4. 27.

S. uniflora. R. Brown, Parry's 1st Voy. Appx. 274 & 309 (Regensb. Flora, 7², Beil. 83). Don, Mill. 3. 222.

Ecmiezoa venosa. Raf. Fl. Tellur. 2. 71.

Var. **Grœnlandica.** Wahl. Fl. Lapp. 119. Willd. Spec. 2. 657. Greville, Mem. Soc. Wern. 3. 423.

S. Grœnlandica. Linn. Spec. 404. Sternb. Rev. Saxifr. 53. Haworth, Enum. Saxifr. 30. Richard. Frankl. Journ. 10. Seringe, DC. Prodr. 4. 27. Lange, Pl. Groenl. 128.

S. hirta. Hook. f. in Journ. Linn. Soc. 1. 117.
S. caespitosa, var. *compacta*, Koch. Regel, l. c.
S. decipiens, var. *arctica.* Engler, Linnæa, 35. 46.
S. decipiens, var. *Groenlandica.* Engler, Monogr. Saxifr. 189.

Var. **Sternbergii.** Regel, l. c. 100.
S. Sternbergii. Willd. Hort. Berol. 1. 462. Sternb. Rev. Saxifr. 56, t. **24.**
S. decipiens, var. *Sternbergii.* Engler, l. c. 188.

S. Careyana. Gray, Am. Journ. Sci. 1. 42. 32 (Lond. Journ. Bot. 2. 116). Chapman, 153. Wood, Cl.-Book, 371; Bot. & Fl. 114. Engler, Monogr. Saxifr. 136.

S. Caroliniana. Gray, Chloris Bor.-Am. in Mem. Amer. Acad. 3. 39. Chapman, 153.
S. Careyana, var. *Caroliniana.* Engler, l. c. 137.

S. cernua. Linn. Spec. 403. See syn. in Sternb. Rev. Saxifr. 18; D. Don, Monogr. Saxifr. 364; Seringe, DC. Prodr. 4. 36; Ledeb. Fl. Ross. 2. 219; Middend. Fl. Taimyr. 44; Engler, Monogr. Saxifr. 106. — Greville, Mem. Soc. Wern. 3. 423. R. Brown, Parry's 1st Voy. 275. Richard. Frankl. Journ. 9. Hook. in Trans. Linn. Soc. 14. 371; Fl. Bor.-Am. 1. 245. Sternberg, Linnæa, 6. 554. Hook. & Arn. Bot. Beechey, 124, excl. var. Torr. & Gray, Fl. 1. 573. Eat. & Wr. 415. Seller, Ann. & Mag. Nat. Hist. 1. 16. 172. Trautv. Pl. Imag. & Descr. Fl. Ross. 63, t. **40.** Seem. Bot. Herald, 31, 52, 55 & 56. Lange, Pl. Groenl. 128. Hook. f. in Journ. Linn. Soc. 1. 117, 122 & 124, & 5. 83; Arct. Pl. 292 & 329. Dickie, Journ. Linn. Soc. 3. 111 & 11. 33. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 193 (Kane's Exped. 2. 456); Pl. Hayes, Proc. Acad. Philad. 1863, 94. Gray, Am. Journ. Sci. 2. 33. 409, in part; Proc. Acad. Philad. 1863, 62. Pl. Bourgeau, 257. Rothr. Fl. Alask. 446. Porter, Fl. Col. 38.
? *S. Sibirica.* Pursh, 312. Meyer, Pl. Lab. 70. Hook. Fl. Bor.-Am. 1. 246. Torr. & Gray, Fl. 1. 573, in part. Eat. & Wr. 415.

S. chrysantha. Gray, Proc. Am. Acad. 11. 83.
S. Hirculus? Gray, Am. Journ. Sci. 2. 33. 409.
S. serpyllifolia. Gray, Proc. Am. Acad. 1863, 62. Porter, Hayd. Rep. 1871, 482; Fl. Col. 39. Rothr. Pl. Wheeler, 37.

S. Davurica. Pallas, Itin. 3, Appx., t. **P., f. 2.** Willd. Spec. 2. 645. See syn. in Ledeb. Fl. Ross. 2. 212; Engler, Monogr. Saxifr. 147. — Hook. Fl. Bor.-Am. 1. 250. Don, Mill. 3. 218. Sternb. in Linnæa, 6. 554. Hook. & Arn. Bot. Beechey, 124. Torr. & Gray, Fl. 1. 569, in part. Eat. & Wr. 414. Seem. Bot. Herald, 31. Hook. f. Arct. Pl. 292. Rothr. Fl. Alask. 447.

Var. **Unalaschcensis.** Engler, l. c. 148.
S. Unalaschcensis. Sternberg, Rev. Saxifr. Suppl. 2. 9.
S. flabellifolia. R. Brown; Torr. & Gray, Fl. 1. 569. Walp. Rep. 2. 366. Ledeb. Fl. Ross. 2. 213.

S. debilis. Engelm.; Gray, Proc. Acad. Philad. 1863, 62. Porter, Fl. Col. 38.
S. cernua. Gray, Am. Journ. Sci. 2. 33. 409, in part.
S. rivularis. Watson, King's Rep. 5. 93.
S. cernua, var. *debilis.* Engler, Monogr. Saxifr. 107.

S. elegans. Nutt.; Torr. & Gray, Fl. 1. 573. Walp. Rep. 2. 366. Gray, Proc. Am. Acad. 8. 383.

S. erosa. Pursh, 311. Poir. Suppl. 5. 77. Nutt. Genera, 1. 285. Otto, Nees Hor. Phys. Berol. 33. Elliott, 1. 512. D. Don, Monog. Saxifr. 360. Spreng. Syst. 2. 363. Seringe, DC. Prod. 4. 41. Don, Mill. 3. 208. Spach, Hist. Veg. 5. 44. Torr. & Gray, Fl. 1. 572. Eat. & Wr. 413. Dietr. 3. 1527. Chapman, 153. Gray,

Am. Journ. Sci. 1. 42. 33 (Lond. Journ. Bot. 2. 116); Manual, 168. Engler, Monogr. Saxifr. 150.

Robertsonia micranthifolia. Haworth, Syn. Pl. Succ. 322.

Aulaxia micranthifolia & *nuda.* Haworth, Enum. Saxifr. 47.

S. Caroliniana & *gracilis.* Schleich. Cat. 1821, 63.

S. nuda. Seringe, DC. Prodr. 4. 41. Don, Mill. 3. 208.

Eraiezoa erosa. Raf. Fl. Tellur. 2. 71.

S. Wolleana. Torr. & Gray, Fl. 1. 569. Walp. Rep. 2. 366.

S. Eschscholtzii. Sternb. Rev. Saxifr. Suppl. 1. 9, **t. 10, f. 2,** & Suppl. 2. 90. Seringe, DC. Prodr. 4. 18. Hook. Fl. Bor.-Am. 1. 243. Don, Mill. 3. 214. Torr. & Gray, Fl. 1. 564. Dietr. 2. 1531. Ledeb. Fl. Ross. 2. 208. Seem. Bot. Herald, 30. Hook. f. Arct. Pl. 292. Rothr. Fl. Alask. 446. Engler, Monogr. Saxifr. 212.

S. fimbriata. Don, Monogr. Saxifr. 404. Spreng. Syst. 2. 367. Eat. & Wr. 413.

Eraiezoa Eschscholtzii. Raf. Fl. Tellur. 2. 70.

S. exilis. Stephan; Sternberg, Rev. Saxifr. Suppl. 1. 8, **t. 3, f. 1;** Linnæa, 6. 556. Seringe, DC. Prodr. 4. 35. Hook. Fl. Bor.-Am. 1. 245. Don, Mill. 3. 211. Torr. & Gray, Fl. 1. 573. Ledeb. Fl. Ross. 2. 221. Rothr. Fl. Alask. 447. Engler, Monogr. Saxifr. 102. Referred to *S. cernua* by Hook. f. in Arct. Pl. 329.

Lobaria exilis. Haworth, Enum. Saxifr. 20.

S. elegans. Sternb. Rev. Saxifr. Suppl. 2. 34.

Eraiezoa exilis. Raf. Fl. Tellur. 2. 71.

? *S. cernua,* var. *multiflora.* Hook. & Arn. Bot. Beechey, 124. Don, Mill. 3. 210.

? *S. Sibirica.* Torr. & Gray, Fl. 1. 573, in part. Seem. Bot. Herald, 31. Hook. f. Arct. Pl. 292. Rothr. Fl. Alask. 447.

S. flagellaris. Willd.; Sternb. Rev. Saxifr. 25, **t. 6,** & Suppl. 2. 18. See syn. in D. Don, Monogr. Saxifr. 373; Seringe, DC. Prodr. 4. 45; Ledeb. Fl. Ross. 2. 209; Middend. Fl. Taimyr. 42; Engler, l. c. 223. — R. Brown, Ross' Voy. 142; Parry's 1st Voy. 273. Hook. in Trans. Linn. Soc. 14. 369; Fl. Bor.-Am. 1. 253, **t. 87;** Bot. Mag. **t. 4621.** Torrey, Ann. Lyc. N. Y. 2. 203. Don, Mill. 3. 211, **f. 42.** Hook. & Arn. Bot. Beechey, 124. Torr. & Gray, Fl. 1. 564. Vahl, Fl. Dan. 14, **t. 2353.** Seem. Bot. Herald, 31 & 55. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 192 (Kane's Exp. 2. 455); Pl. Hayes, Proc. Acad. Philad. 1863, 94. Lange, Pl. Groenl. 128. Hook. f. in Journ. Linn. Soc. 1. 117 & 121, & 5. 83; Arct. Pl. 292. Gray, Am. Journ. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 62. Rothr. Fl. Alask. 446; Pl. Wheeler, 38. Watson, King's Rep. 5. 94. Porter, Fl. Col. 39.

S. setigera. Pursh, 312. Poir. Suppl. 5. 77. Eat. & Wr. 414.

Hircalus flagellaris. Haworth, Enum. Saxifr. 41.

S. Forbesii. Vasey, Am. Entomologist & Botanist, 2. 288.

S. heterantha. Hook. Fl. Bor.-Am. 1. 252, **t. 78, B.** Don, Mill. 3. 209. Eat. & Wr. 414. Dietr. 2. 1528. Ledeb. Fl. Ross. 2. 216. Rothr. Fl. Alask. 447. Boland. Cat. 11. Gray, Proc. Am. Acad. 8. 383. To *S. punctata* by Hook. f. Arct. Pl. 292.

S. Mertensiana. Bongard, Veg. Sitch. 141 (Presl, Repert. Bot. 1. 315). Torr. & Gray, Fl. 1. 568. Walp. Rep. 2. 366. Engler, Monogr. Saxifr. 139. Gray, Bot. Calif. 1. 195.

Steinanisia heterantha. Raf. Fl. Tellur. 2. 69.

S. australis, var. *δ.* Torr. & Gray, Fl. 1. 568.

S. punctata. Hook. in Lond. Journ. Bot. 6. 231.

S. hieracifolia. Waldst. & Kit. Pl. Rar. Hung. 1. 17, **t. 18.** See syn. in Sternb. Rev. Saxifr. 9, & Suppl.; D. Don, Saxifr. 383; Ledeb. Fl. Ross. 2. 214; Engler, Monogr. Saxifr. 151. — Seringe, DC. Prodr. 4. 38. Hook. Fl. Bor.-Am. 1. 249.

Sternb. in Linnæa, 6. 554. Don, Mill. 3. 217. Hook. & Arn. Bot. Beechey, 124. Torr. & Gray, Fl. 1. 572. Eat. & Wr. 414. Seem. Bot. Herald, 31. Hook. f. in Journ. Linn. Soc. 1. 122; Arct. Pl. 292 & 329. Rothr. Fl. Alask. 447.

S. plantiginifolia. Hook. in Parry's 2d Voy. 394.

Eraiezoa hieracifolia. Raf. Fl. Tellur. 2. 70.

S. Hirculus. Linn. Spec. 402. See syn. in Sternb. Rev. Saxifr. 24; D. Don, Monogr. Saxifr. 372; Seringe, DC. Prodr. 4. 45; Ledeb. Fl. Ross. 2. 210; Middend. Fl. Taimyr. 42; Engler, Monogr. Saxifr. 122. — Richard. Frankl. Journ. 9. R. Brown, Parry's 1st. Voy. 273 (Regensb. Flora, 7², Beil. 82). Hook. in Trans. Linn. Soc. 14. 369; Fl. Bor.-Am. 1. 252. Sternb. in Linnæa, 6. 555. Don, Mill. 3. 211. Hook. & Arn. Bot. Beechey, 124. Torr. & Gray, Fl. 1. 564. Eat. & Wr. 414. Seem. Bot. Herald, 31, 52 & 55. Hook. f. in Journ. Linn. Soc. 1. 116, 121 & 124, & 5. 83; Arct. Pl. 292 & 329. Gray, Am. Journ. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 62. Rothr. Fl. Alask. 446; Pl. Wheeler, 37. Porter, Fl. Col. 39.

S. propinqua. R. Brown, Ross' Voy. 142; Parry's 3d Voy. 273.

Hirculus propinquus. Haworth, Enum. Saxifr. 41.

S. integrifolia. Hook. Fl. Bor.-Am. 1. 249, **t. 86**; Lond. Journ. Bot. 6. 231. Don, Mill. 3. 218. Torr. & Gray, Fl. 1. 572. Eat. & Wr. 413. Walp. Rep. 2. 367. Dietr. 2. 1533. Newberry, Pac. R. Rep. 6. 75. Cooper, same, 12. 61. Boland. Cat. 11. Watson, King's Rep. 5. 93. Gray, Proc. Am. Acad. 8. 382; Bot. Calif. 1. 194. Porter, Fl. Col. 40. Engler, Monogr. Saxifr. 149.

S. hieracifolia, var. ? Gray, Am. Journ. Sci. 2. 33. 409.

S. nivalis, var. ? Gray, Proc. Acad. Philad. 1863, 62.

S. hieracifolia. Porter, Hayd. Rep. 1871, 782. Coulter, same, 1872, 766.

S. nivalis, var. *Gragi.* Rothr. Pl. Wheeler, 38.

S. Jamesii. Torrey, Ann. Lyc. N. Y. 2. 204. Seringe, DC. Prodr. 4. 43. Sternb. Rev. Saxifr. Suppl. 2. 16. Hook. Fl. Bor.-Am. 1. 47, **t. 84.** Don, Mill. 3. 209. Torr. & Gray, Fl. 1. 574. Eat. & Wr. 413. Walp. Rep. 2. 367. Dietr. 2. 1528. Gray, Proc. Acad. Philad. 1863, 62. Porter, Hayd. Rep. 1871, 481; Fl. Col. 40. Coulter, Hayd. Rep. 1872, 766. Engler, Monogr. Saxifr. 109.

Telesonix Jamesii. Raf. Fl. Tellur. 2. 69.

S. leucanthemifolia. Michx. Fl. 1. 268. Poir. Dict. 6. 679. Sternb. Rev. Saxifr. 10. Pursh, 311. Elliott, 1. 512. D. Don, Monogr. Saxifr. 358, in part. Spreng. Syst. 2. 362. Don, Mill. 3. 208. Presl, Rel. Hænk. 2. 55. Torr. & Gray, Fl. 1. 570. Eat. & Wr. 413. Dietr. 2. 1527. Chapman, 153. Rothr. Fl. Alask. 446. Gray, Manual, 168; Bot. Calif. 195. Engler, Monogr. Saxifr. 135, excl. var. *integrifolia.*

Spatularia leucanthemifolia. Haworth, Enum. Saxifr. 48.

S. Clusii. Seringe, DC. Prodr. 4. 40, in part. Kunze, Linnæa, 20. 43.

Hexaphoma petiolaris. Raf. Fl. Tellur. 2. 67.

Var. **[ferruginea].** Torr. & Gray, Fl. 1. 570.

S. ferruginea. Graham, Edinb. Phil. Journ. 1829, 340 (Litt.-Ber. zu Linnæa, 1830, 157).

S. leucanthemifolia. Lodd. Bot. Cab. **t. 1568.** Hook. Fl. Bor.-Am. 1. 250; Bot. Mag. **t. 2959.**

Hexaphoma ferruginea. Raf. Fl. Tellur. 266.

S. stellaris, var. *leucanthemifolia.* Ledeb. Fl. Ross. 2. 211.

Var. **Brunoniana.** Torr. & Gray, Fl. 1. 570. Engler, l. c. 135.

S. stellaris, var. *Brunoniana.* Bongard, Veg. Sitch. 140.

S. Bongardi. Presl, Repert. Bot. 1. 315.

S. Lyallii. Engler, Index Crit. Saxifr. 30; Monogr. Saxifr. 141. Walp. Ann. 7. 893.

S. Davurica. Torr. & Gray, Fl. 1. 569, in part. Pl. Bourgeau, 257.

S. nivalis. Linn. Spec. 401, excl. syn. Gronov. See syn. in Poir. Dict. 6. 683; Sternb. Rev. Saxifr. 12; D. Don, Monogr. Saxifr. 387; Seringe, DC. Prodr. 4. 38; Ledeb. Fl. Ross. 2. 213; Middend. Fl. Taimyr. 43; Engler, Monogr. Saxifr. 145. — Pursh, 310. James, Cat. 181; Long's Exp. 2. 345. Richard. Frankl. Journ. 9. R. Brown, Parry's 1st Voy. 275 (Regensb. Flora, 7², Beil. 84). Hook. in Trans. Linn. Soc. 14. 371; Fl. Bor.-Am. 1. 248. Torrey, Ann. Lyc. N. Y. 2. 203; Bot. Wilkes, 300. Meyer, Pl. Lab. 68. Sternb. in Linnæa, 6. 554. Don, Mill. 3. 218. Torr. & Gray, Fl. 1. 571. Eat. & Wr. 413. Seem. Bot. Herald, 31, 52, 55 & 56. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 192 (Kane's Exped. 2. 455); Pl. Hayes, Proc. Acad. Philad. 1863, 94. Lange, Pl. Groenl. 128. Hook. f. in Journ. Linn. Soc. 1. 117, 122 & 124, & 5. 83; Arct. Pl. 292 & 329. Dickie, Journ. Linn. Soc. 3. 111 & 11. 33. Gray, Am. Journ. Sci. 2. 33. 400; Proc. Acad. Philad. 1863, 62; Bot. Calif. 194. Rothr. Fl. Alask. 447; Pl. Wheeler, 38. Watson, King's Rep. 5. 93. Porter, Hayd. Rep. 1871, 482; Fl. Col. 39. Coulter, Hayd. Rep. 1872, 766.

Dermasea nivalis. Haworth, Enum. Saxifr. 9.

S. pauciflora. Sternb. Rev. Saxifr. Suppl. 1. 6. Seringe, DC. Prodr. 4. 42. Seem. Bot. Herald, 55.

Var. **tenuis.** Wahl. Fl. Lapp. 114. Hook. Fl. Bor.-Am. 1. 248. Torr. & Gray, Fl. 1. 571. Durand, l. c. 192. Lange, Pl. Groenl. 128. Gray, Bot. Calif. 194.

S. nivalis. Watson, King's Rep. 5. 93, in part.

S. nudicaulis. D. Don, Monogr. Saxifr. 366. Spreng. Syst. 2. 363. Sternb. Rev. Saxifr. Suppl. 2. 36. Seringe, DC. Prodr. 4. 37. Hook. Fl. Bor.-Am. 1. 252. Don, Mill. 3. 209. Torr. & Gray, Fl. 1. 568. Eat. & Wr. 415. Dietr. 2. 1528. Ledeb. Fl. Ross. 2. 216. Rothr. Fl. Alask. 447. Referred doubtfully to *S. rivularis* by Engler, Monogr. Saxifr. 104.

S. oppositifolia. Linn. Spec. 402. See syn. in Sternb. Rev. Saxifr. 36; D. Don, Monogr. Saxifr. 400; Seringe, DC. Prodr. 4. 17; Ledeb. Fl. Ross. 2. 204; Middend. Fl. Taimyr. 41; Engler, Monogr. Saxifr. 276. — Pursh, 311. Schrank, Pfl. Lab. 21. R. Brown, Ross' Voy. 142; Parry's 1st Voy. 273. Greville, Mem. Soc. Wern. 3. 423. Richard. Frankl. Journ. 2 ed. 9. Hook. in Trans. Linn. Soc. 14. 369; Fl. Bor.-Am. 1. 242. Spreng. Syst. 2. 367. Meyer, Pl. Lab. 69. Don, Mill. 3. 214. Torr. & Gray, Fl. 1. 563. Eat. & Wr. 414. Dietr. 2. 1531. Seller, Ann. & Mag. Nat. Hist. 1. 16. 171. Seem. Bot. Herald, 30, 52, 55 & 56. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 191 (Kane's Exped. 2. 454); Pl. Hayes, Proc. Acad. Philad. 1863, 94. Lange, Pl. Groenl. 128. Hook. f. in Journ. Linn. Soc. 1. 117, 122 & 124, & 5. 83; Arct. Pl. 292. Dickie, Journ. Linn. Soc. 3. 111 & 11. 33. Pl. Bourgeau, 256. Rothr. Fl. Alask. 446. Gray, Manual, 107. Porter, Hayd. Rep. 1871, 482. Coulter, same, 1872, 766.

Antiphylla cærulea, & *A. spathulata*, var. (?) *arctica.* Haworth, l. c. 43 & 45.

S. spathulata, var. (?) *arctica.* Seringe, l. c. Torr. & Gray, Fl. 1. 576.

S. retusa. Sternb. in Linnæa, 6. 556.

Evaiezoe oppositifolia. Raf. Fl. Tellur. 2. 70.

S. Parryi. Gray, Mex. Bound. 69, **t. 25**; Bot. Calif. 1. 193. Walp. Ann. 7. 898. Engler, Monogr. Saxifr. 284.

S. peltata. Torrey, in Benth. Pl. Hartw. 311; Bot. Wilkes, 300, **t. 5.** Walp. Ann. 2. 688. Durand, Pl. Pratten. 88. Newberry, Pac. R. Rep. 6. 75. Boland.

Cat. 11. Heer in Regel, Gart. Fl. 1872, 259, t. **735**. Hook. f. Bot. Mag. t. **6074**. Engler, Monogr. Saxifr. 108. Gray, Bot. Calif. 1. 193.

Leptarrhena inundata. Behr, Proc. Calif. Acad. 1. 45 & 57.

S. Pennsylvanica. Linn. Spec. 399, excl. syn. Pluk. Hill, Veg. Syst. 13, t. **14, f. 3.** Ait. Hort. Kew. 2. 78. Willd. Spec. 2. 640; Enum. 459. Michx. Fl. 1. 269. Poir. Dict. 6. 674. Persoon, 1. 487. Sternb. Rev. Sax. 8. Pursh, 311. Bigel. Fl. Bost. 177. D. Don, Monogr. Saxifr. 384. Otto, in Nees, Hor. Phys. Berol. 33. Torrey, Fl. U. S. 444; Fl. N. Y. 1. 255. Spreng. Syst. 2. 365. Seringe, DC. Prodr. 4. 39. Hook. Fl. Bor.-Am. 1. 249. Don, Mill. 3. 217. Beck, Bot. 158. Darling. Fl. Cestr. 270. Torr. & Gray, Fl. 1. 572. Eat. & Wr. 413. Dietr. 2. 1533. Gray, Manual, 168. Engler, Monogr. Saxifr. 149.

S. semipubescens. Sweet, Hort. Suburb. 97. D. Don, Monogr. Saxifr. 385. Spreng. Syst. 2. 365. Seringe, DC. Prodr. 4. 40. Don, Mill. 3. 217. Eat. & Wr. 413. Dietr. 2. 1533.

S. palustris. Link, Enum. 1. 412.

Micranthes Pennsylvanica & *hirta.* Haworth, Enum. Saxifr. 45 & 46.

Evaiezoa Pennsylvanica. Raf. Fl. Tellur. 2. 71.

S. punctata. Linn. Spec. 401. See syn. in Sternb. Rev. Saxifr. 18; Ledeb. Fl. Ross. 2. 215; Middend. Fl. Taimyr. 44, and Trautv. & Meyer, Fl. Ochot. 42, under *S. æstivalis*; Engler, Monogr. Saxifr. 137.—Sternb. Rev. Suppl. 2. 7, t. **4**; Linnæa, 6. 554. Hook. Fl. Bor.-Am. 1. 251. Bongard, Veg. Sitch. 140. Hook. & Arn. Bot. Beechey, 114 & 124. Eat. & Wr. 414. Trautv. Pl. Imag. 57, t. **37**. Hook. f. Arct. Pl. 292 & 330. Gray, Am. Journ. Sci. 2. 33. 409; Proc. Acad. Philad. 1863, 62; Proc. Am. Acad. 8. 383; Bot. Calif. 1. 195. Rothr. Fl. Alask. 447; Pl. Wheeler, 38. Watson, King's Rep. 5. 94; Pl. Wheeler, 8. Porter, Hayd. Rep. 1871, 482; Fl. Col. 39. Coulter, Hayd. Rep. 1872, 766.

S. Geum. Pursh, 311. Eat. & Wr. 413.

S. spicata & *arguta.* D. Don, Monogr. Saxifr. 354 & 356. Spreng. Syst. 2. 362. Seringe, DC. Prodr. 4. 40 & 41. Hook. Fl. Bor.-Am. 1. 251. Don, Mill. 3. 207. Torr. & Gray, Fl. 1. 567 & 568. Eat. & Wr. 413. Dietr. 2. 1527. Ledeb. Fl. Ross. 2. 215 & 216. Rothr. Fl. Alask. 447.

S. umbrosa, var. *punctata.* D. Don, l. c. 352. Don, Mill. 3. 207.

Robertsonia punctata. Haworth, Enum. Saxifr. 55.

S. gracilis. Stephan; Sternb. Rev. Suppl. 1. 7, t. **5, f. 1.**

S. hirsuta, var. *punctata.* Seringe, DC. Prodr. 4. 42.

S. æstivalis. Fisch. in Ind. Sem. Petrop. 1835, 37. Torr. & Gray, Fl. 1. 567, excl. var. β. Seem. Bot. Herald, 31.

Evaiezoa punctata. Raf. Fl. Tellur. 2. 70.

Var. **Nelsoniana.** Engler, l. c. 139.

S. Nelsoniana. D. Don, Monogr. Saxifr. 355. Spreng. Syst. 2. 362. Seringe, DC. Prodr. 4. 41. Hook. Fl. Bor.-Am. 1. 251. Don, Mill. 3. 207. Eat. & Wr. 413. Dietr. 2. 1527. Ledeb. Fl. Ross. 2. 216. Rothr. Fl. Alask. 447.

S. æstivalis, var. β. Torr. & Gray, Fl. 568.

S. ranunculifolia. Hook. Fl. Bor.-Am. 1. 246, t. **83**. Don, Mill. 3. 211. Torr. & Gray, Fl. 1. 575 & 577. Eat. & Wr. 414. Dietr. 2. 1529. Walp. Rep. 2. 367. Engler, Monogr. Saxifr. 110.

Hemieva ranunculifolia. Raf. Fl. Tellur. 2. 70.

Boykinia ranunculifolia. Gray, Am. Journ. Sci. 1. 42. 21 (Lond. Journ. Bot. 1. 228); Chloris Bor.-Am. in Mem. Am. Acad. 3. 40.

S. reflexa. Hook. Fl. Bor.-Am. 1. 249, t. **85**. Don, Mill. 3. 218, f. **45**. Torr. & Gray, Fl. 1. 568. Eat. & Wr. 413. Dietr. 2. 1533. Walp. Rep. 2. 366. Engler,

Monogr. Saxifr. 143. Referred to *S. Virginiensis* by Hook. f. in Arct. Pl., and doubtfully by Gray, Am. Journ. Sci. 2. 33. 409, to *S. Davurica*.

Steiranisia reflexa. Raf. Fl. Tellur. 2. 69.

S. Virginiensis. Hook. f. Arct. Pl. 292 & 329, as to Arctic habitat.

S. rivularis. Linn. Spec. 404. See syn. in Sternb. Rev. Saxifr. 18 & Suppl. 2. 36; D. Don, Monogr. Saxifr. 367; Seringe, DC. Prodr. 4. 36; Ledeb. Fl. Ross. 2. 221; Middend. Fl. Taimyr. 45; Engler, Monogr. Saxifr. 104. — Pursh, 312. Schrank, Pfl. Lab. 22. Hook. in Trans. Linn. Soc. 14. 370; Fl. Bor.-Am. 1. 246. Meyer, Pl. Lab. 70. Hook. & Arn. Bot. Beechey, 124. Torr. & Gray, Fl. 1. 574. Eat. & Wr. 415. Seller, Ann. & Mag. Nat. Hist. 16. 172. Seem. Bot. Herald, 32 & 56. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 193 (Kane's Exped. 2. 456); Proc. Acad. Philad. 1863, 94. Lange, Pl. Groenl. 128. Hook. f. in Journ. Linn. Soc. 1. 117 & 124, & 5. 83; Arct. Pl. 292 & 329. Dickie, Journ. Linn. Soc. 3. 111 & 11. 33. Rothr. Fl. Alask. 447. Gray, Manual, 167. Watson, King's Rep. 5. 93, in part. Porter, Fl. Col. 38.

S. petiolaris. R. Brown, Ross' Voy. 142. Hook. in Parry's 1st Voy. 274 (Regensb. Flora, 7², Beil. 83). Richard. Frankl. Journ. 14. Torr. & Gray, Fl. 1. 576.

S. Cymbalaria, & var. *β*. Sternb. in Linnæa, 6. 555. Torr. & Gray, Fl. 1. 574.

Evaizoa rivularis. Raf. Fl. Tellur. 2. 71.

Var. **hyperborea.** Hook. Fl. Bor.-Am. 1. 246. Torr. & Gray, Fl. 1. 574.

S. hyperborea. R. Brown, Parry's 1st Voy. 274. Seringe, DC. Prodr. 4. 37. Sternb. Rev. Saxifr. Suppl. 2. 38. Don, Mill. 3. 210. Dietr. 2. 1529. Pl. Bourgeau, 256.

Var. **Laurentiana.** Engler, l. c. 105.

S. Laurentiana. Seringe, DC. Prodr. 4. 35. Hook. Fl. Bor.-Am. 1. 245. Sternb. in Linnæa, 6. 556. Don, Mill. 3. 211. Torr. & Gray, Fl. 1. 573. Eat. & Wr. 413.

S. vaginata. Presl; Sternb. Rev. Suppl. 2. 39.

Evaizoa Laurentiana. Raf. Fl. Tellur. 2. 71.

S. serpyllifolia. Pursh, 310. See syn. in Sternb. Rev. Saxifr. Suppl. 2. 93; Ledeb. Fl. Ross. 2. 210; Middend. Fl. Taimyr. 42; Engler, Monogr. Saxifr. 209. — Poir. Suppl. 5. 77. D. Don, Monogr. Saxifr. 405. Spreng. Syst. 2. 367. Seringe, DC. Prodr. 4. 25. Hook. Fl. Bor.-Am. 1. 243. Cham. in Linnæa, 6. 555. Don, Mill. 3. 216. Torr. & Gray, Fl. 1. 566. Eat. & Wr. 413. Dietr. 2. 1532. Trautv. Pl. Imag. 47, **t. 31.** Seem. Bot. Herald, 31. Hook. f. Arct. Pl. 292. Rothr. Fl. Alask. 446.

S. Fischeri. Seringe, DC. Prodr. 4. 22.

S. bicolor. Sternb. Rev. Suppl. 2. 49, **t. 14.**

S. planifolia. Sternb. in Linnæa, 6. 555.

Evaizoa serpyllifolia. Raf. Fl. Tellur. 2. 71.

S. sileniflora. Sternb. in Linnæa, 6. 557; Rev. Saxifr. Suppl. 2. 68, **t. 13.** Hook. Fl. Bor.-Am. 1. 245. Don, Mill. 3. 224. Torr. & Gray, Fl. 1. 566. Eat. & Wr. 414. Dietr. 2. 1536. Walp. Rep. 2. 367. Ledeb. Fl. Ross. 2. 224. Seem. Bot. Herald, 31. Rothr. Fl. Alask. 447. Engler, Monogr. Saxifr. 172.

S. cæspitosa, var. *uniflora*. Hook. & Arn. Bot. Beechey, 123.

S. hypnoides, var. *condensata*. Seringe, DC. Prodr. 4. 31, in part.

Evaizoa sileniflora. Raf. Fl. Tellur. 2. 71.

S. condensata. Dietr. 2. 1537, in part.

S. stellaris. Linn. Spec. 400. See syn. in Sternb. Rev. Saxifr. 11; D. Don, Monogr. Saxifr. 356; Seringe, DC. Prodr. 4. 40; Ledeb. Fl. Ross. 2. 211; Middend. Fl. Taimyr. 43; Engler, Monogr. Saxifr. 130. — Pursh, 310. Greville, Mem. Soc. Wern. 428. Hook. Fl. Bor.-Am. 1. 570. Meyer, Pl. Lab. 68. Torr. & Gray, Fl.

1. 570. Eat. & Wr. 413. Lange, Pl. Groenl. 128. Hook. f. in Journ. Linn. Soc. 5. 83; Arct. Pl. 292 & 320.

Var. **comosa.** Poir. Dict. 6. 680. Seringe, DC. Prodr. 4. 40. Vahl, Fl. Dan. 14, **t. 2354.** Lange, Pl. Groenl. 128. Gray, Manual, 108. Porter, Fl. Col. 39. Engler, l. c. 133.

S. foliolosa. R. Brown, Parry's 1st Voy. 275 (Regensb. Flora, 7², Beil. 84). Hook. in Parry's 2d Voy. 13; Trans. Linn. Soc. 14. 371; Fl. Bor.-Am. 1. 251. Don, Mill. 3. 208. Torr. & Gray, Fl. 1. 570. Eat. & Wr. 414. Walp. Rep. 2. 367. Seem. Bot. Herald, 31. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 192 (Kane's Exped. 2. 455).

S. stellaris, var. *foliolosa.* Trautv. Pl. Imag. 53, **t. 35.**

S. Texana. Buckley, Proc. Acad. Philad. 1861, 455. Walp. Ann. 7. 899. Young, Fl. Texas, 288. Engler, Monogr. Saxifr. 283.

S. Tolmiei. Torr. & Gray, Fl. 1. 567. Walp. Rep. 2. 366. Newberry, Pac. R. Rep. 6. 75. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 195. Engler, l. c. 129.

S. tricuspidata. Retz. Prodr. Fl. Scand. 2 ed. 104. Rottb. Act. Hafn. 10. 446, **t. 6.** Vahl, Fl. Dan. 6. 5, **t. 976.** Willd. Spec. 2. 657. Poir. Dict. 6. 698. Persoon, 1. 490. Sternb. Rev. Saxifr. 54; Suppl. 2. 62. Pursh, 312. R. Brown, Ross' Voy. 142; Parry's 1st Voy. 274. D. Don, Monogr. Saxifr. 440. Greville, Mem. Soc. Wern. 428. Richard. Frankl. Journ. 9. Spreng. Syst. 2. 368. Seringe, DC. Prodr. 4. 47. Hook. Fl. Bor.-Am. 1. 254. Don, Mill. 3. 213. Hook. & Arn. Bot. Beechey, 124. Torr. & Gray, Fl. 1. 564. Eat. & Wr. 415. Dietr. 2. 1530. Ledeb. Fl. Ross. 2. 209. Seller, Ann. & Mag. Nat. Hist. 16. 172. Seem. Bot. Herald, 31 & 55. Durand, Pl. Kane. 192 (Kane's Exped. 2. 455); Pl. Hayes, Proc. Acad. Philad. 1863, 94. Lange, Pl. Groenl. 128. Hook. f. in Journ. Linn. Soc. 1. 117, 121 & 124, & 5. 83; Arct. Pl. 292. Dickie, Journ. Linn. Soc. 3. 111 & 11. 33. Pl. Bourgeau, 257. Rothr. Fl. Alask. 446. Gray, Manual, 108. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 320. Engler, l. c. 217.

Leptasea tricuspidata. Haworth, Enum. Saxifr. 39.

Var. **micrantha.** Sternb. Rev. Suppl. 2. 62. Hook. Fl. Bor.-Am. 1. 254. Torr. & Gray, Fl. 1. 565.

S. Chamissoi. Sternb. Rev. Saxifr. Suppl. 1. 12, **t. 10**; Linnæa, 6. 556. Spreng. Syst. 2. 368. Seringe, DC. Prodr. 4. 47. Don, Mill. 3. 213. Dietr. 2. 1530.

S. Virginiensis. Michx. Fl. 1. 269. Lam. Ill. 2. 495, **t. 372, f. 4.** Poir. Dict. 6. 675. Pursh, 310. Sims, Bot. Mag. **t. 1664.** D. Don, Monogr. Saxifr. 380. Elliott, 1. 511. Torrey, Fl. U. S. 444; Fl. N. Y. 1. 255. Spreng. Syst. 2. 365. Seringe, DC. Prodr. 4. 39. Hook. Fl. Bor.-Am. 1. 248; Lond. Journ. Bot. 6. 231. Sternb. Rev. Saxifr. Suppl. 2. 45. Beck, Bot. 137. Don, Mill. 3. 217. Darling. Fl. Cestr. 270. Torr. & Gray, Fl. 1. 571. Eat. & Wr. 413. Dietr. 2. 1533. Oakes, Hovey's Mag. 13. 218 (var. *chlorantha*). Benth. Pl. Hartw. 311. Tuckerman, Josselyn's Rarities, 70 & 90. Durand, Pl. Pratten. 88. Torrey, Pac. R. Rep. 4. 89. Mex. Bound. 69. Lesqx. Fl. Ark. 361. Chapman, 153. Pl. Bourgeau, 257. Gray, Manual, 108; Proc. Am. Acad. 8. 382; Bot. Calif. 1. 194. Boland. Cat. 11. Engler, Monogr. Saxifr. 143.

S. nivalis. Linn. Spec. 400 & Willd. Spec. 2. 645, in part. Muhl. Cat. 45.

S. Virginica. Persoon, 1. 488. Nutt. Genera, 1. 285. Spreng. Neue Entdeck. 1. 284. Sternb. Rev. Suppl. 1. 5.

S. vernalis. Willd. Hort. Berol. **t. 43** (Schrad. Journ. Bot. 1807, 123); Enum. 459. Sternb. Rev. Saxifr. 8. Bigel. Fl. Bost. 177. Hook. Fl. Bor.-Am. 1. 248. Don, Mill. 3. 217. Dietr. 2. 1533.

S. elongata. Sternb. Rev. Saxifr. 9, **t. 4.** Seringe, DC. Prodr. 4. 39.

S. pilosa. Haworth, Misc. Nat. 157.
Dermasea elongata & pilosa. Haworth, Enum. Saxifr. 8.
S. integrifolia, var. *dentata.* Torrey, Pac. R. Rep. 4. 89.

S. aconitifolia; Boykinia aconitifolia.
æstivalis; heterantha, punctata.
amplexifolia; Leptarrhena pyrolifolia.
androsacea; cæspitosa.
arguta; punctata.
bicolor; serpyllifolia.
Bongardi; leucanthemifolia.
cæspitosa; sileniflora, Spiræa pectinata.
Caregana; Caroliniana.
Caroliniana; erosa.
cernua; debilis, exilis.
Chamissoi; tricuspidata.
chrysosplenioides; bronchialis.
Clusii; leucanthemifolia.
condensata; sileniflora.
controversa; adscendens.
Cymbalaria; rivularis.
Davurica; Lyallii, reflexa.
decipiens; cæspitosa.
elata; Boykinia occidentalis.
elegans; exilis.
elongata; Virginiensis.
exarata; cæspitosa.
ferruginea; leucanthemifolia.
fimbriata; Eschscholtzii.
Fischeri; serpyllifolia.
flabellifolia; Davurica.
foliolosa; stellaris.
Geum; punctata.
gracilis; erosa, punctata.
Grænlandica; cæspitosa.
hieracifolia; integrifolia.
Hirculus; chrysantha.
hirsuta; punctata.
hirta; cæspitosa.
hyperborea; rivularis.
hypnoides; sileniflora.
integrifolia; Virginiensis.
Laurentiana; rivularis.
leucanthemifolia; bryophora.
Mertensiana; heterantha.
S. Nelsoniana; punctata, Boykinia Richardsonii.
nitida; bronchialis.
nivalis; integrifolia, Virginiensis.
nuda; erosa.
nutans; Romanzovia Sitchensis.
palustris; Pennsylvanica.
pauciflora; nivalis.
pectinata; Spiræa pectinata.
petiolaris; rivularis.
petræa; adscendens.
pilosa; Virginiensis.
planifolia; serpyllifolia.
plantaginifolia; hieracifolia.
propinqua; Hirculus.
Pseudo-Burseriana; bronchialis.
pubescens; cæspitosa.
punctata; heterantha.
pyrolifolia; Leptarrhena pyrolifolia.
retusa; oppositifolia.
Richardsonii; Boykinia Richardsonii.
rivularis; debilis, nudicaulis.
semipubescens; Pennsylvanica.
serpyllifolia; chrysantha.
setigera; flagellaris.
Sibirica; cernua, exilis.
spathulata; oppositifolia.
spicata; punctata.
stellaris; leucanthemifolia.
Sternbergii; cæspitosa.
Sullivantii; Sullivantia Ohioensis.
tridactylites; adscendens.
umbrosa; punctata.
Unalaschcensis; Davurica.
uniflora; cæspitosa.
vaginata; rivularis.
venosa; cæspitosa.
vernalis; Virginiensis.
Virginiensis; reflexa.
Wolleana; erosa.
——— ?; bronchialis.

SULLIVANTIA Ohioensis. Torr. & Gray; Gray, Am. Journ. Sci. 1. 42. 22 (Lond. Journ. Bot. 1. 228); Chloris Bor.-Am. in Mem. Am. Acad. 3. 38, **t. 6** (Regensb. Flora, 32. 695); Struct. Bot. 424, **f. 839–844**; Manual, 169. Baillon, Hist. Pl. 3. 331. Coulter, Am. Naturalist, 9. 572.

Heuchera (?), *n. sp.* Sullivant, Cat. Pl. Columb. 20.

Saxifraga (?) *Sullivantii.* Torr. & Gray, Fl. 1. 575. Walp. Rep. 2. 367.

TELLIMA affinis. Boland. Cat. 11. Gray, Bot. Calif. 198.

Lithophragma heterophylla. Torrey, Pac. R. Rep. 4. 90; Mex. Bound. 69.

L. affinis. Gray, Proc. Am. Acad. 6. 534. Watson, King's Rep. 5. 449.

T. Bolanderi. Boland. Cat. 11. Gray, Bot. Calif. 1. 198.

Lithophragma Bolanderi. Gray, Proc. Am. Acad. 6. 535. Watson, l. c.

T. Cymbalaria. Walp. Rep. 2. 372. Boland. Cat. 11. Gray, Bot. Calif. 1. 198.

Lithophragma Cymbalaria. Torr. & Gray, Fl. 1. 585. Torrey, Pac. R. Rep. 7. 11; Mex. Bound. 69. Gray, Ives's Rep. 15; Proc. Am. Acad. 6. 535. Watson, King's Rep. 5. 449.

T. grandiflora. R. Brown, Frankl. Journ. Appx. 759. Dougl.; Lindl Bot. Reg. 14, t. **1178.** Seringe, DC. Prodr. 4. 49. Bongard, Veg. Sitch. 139. Hook. Fl. 1. 239. Cham. in Linnæa, 6. 559. Don, Mill. 3. 228. Spach, Hist. Veg. 5. 63. Torr. & Gray, Fl. 1. 583. Eat. & Wr. 448. Ledeb. Fl. Ross. 2. 228. Torrey, Pac. R. Rep. 4. 90; Bot. Wilkes, 311. Cooper, Pac. R. Rep. 12. 62. Regel, Ind. Sem. Petrop. 1866, 100. Rothr. Fl. Alask. 447. Boland. Cat. 11. Baillon, Hist. Pl. 3. 329, f. **368.** Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 197.

Mitella grandiflora. Pursh, 314. Haworth, Enum. Saxifr. 57. Spreng. Syst. 2. 361. Dietr. 2. 1539.

Tiarella alternifolia. Fisch.; Seringe, DC. Prodr. 4. 50. Don, Mill. 3. 229. Dietr. 2. 1538.

T. heterophylla. Hook. & Arn. Bot. Beechey, 346. Walp. Rep. 2. 371. Boland. Cat. 11. Gray, Bot. Calif. 1. 198.

Lithophragma heterophylla. Torr. & Gray, Fl. 1. 584. Benth. Pl. Hartw. 312. Gray, Proc. Am. Acad. 6. 534 & 535. Watson, King's Rep. 5. 449.

T. parviflora. Hook. Fl. Bor.-Am. 1. 239, t. **78, A.** Don, Mill. 3. 228, f. **49.** Hook. & Arn. Bot. Beechey, 346 (as *T. parvifolia*). Eat. & Wr. 448. Walp. Rep. 2. 371. Watson, King's Rep. 5. 94. Porter, Hayd. Rep. 1871, 782; Fl. Col. 40. Coulter, Hayd. Rep. 1872, 766. Gray, Bot. Calif. 1. 198.

Lithophragma parviflora. Nutt. in Journ. Acad. Philad. 7. 26. Torr. & Gray, Fl. 1. 584. Hook. in Lond. Journ. Bot. 6. 232. Cooper, Pac. R. Rep. 12. 62. Gray, Proc. Acad. Philad. 1863, 62; Proc. Am. Acad. 6. 534. Watson, King's Rep. 5. 449. Torrey, Bot. Wilkes, 311.

Pleurendotria parviflora & reniformis. Raf. Fl. Tellur. 2. 73.

Mitella parviflora. Dietr. 2. 1539.

T. tenella. Walp. Rep. 2. 371. Watson, King's Rep. 5. 95. Coulter, Hayd. Rep. 1872, 766. Rothr. Pl. Wheeler, 38. Gray, Bot. Calif. 1. 198.

Lithophragma tenella & glabra. Nutt.; Torr. & Gray, Fl. 1. 584. Gray, Proc. Am. Acad. 6. 533 & 534. Anderson, Cat. Pl. Nev. 121. Watson, King's Rep. 5. 449.

T. glabra. Walp. Rep. 2. 371.

Lithophragma parviflora. Gray, Ives's Rep. 15.

TIARELLA cordifolia. Linn. Spec. 405. Ait. Hort. Kew. 2. 83. Lam. Ill. 2. 495, t. **373, f. 1.** Willd. Spec. 2. 659; Enum. 462. Michx. Fl. 1. 270. Persoon, 1. 491. Poir. Dict. 7. 657. Sims, Bot. Mag. t. **1589.** Pursh, 313. Haworth, Enum. Saxifr. 58. Torrey, Am. Journ. Sci. 4. 63; Fl. U. S. 445; Fl. N. Y. 1. 258. Bigel. Fl. Bost. 2 ed. 178. Spreng. Syst. 2. 361. Seringe, DC. Prodr. 4. 50. Hook. Fl. Bor.-Am. 1. 238. Beck, Bot. 139. Don, Mill. 3. 229. Spach, Hist. Veg. 5. 65. Torr. & Gray, Fl. 1. 587. Eat. & Wr. 452. Dietr. 2. 1538. Ledeb. Fl. Ross. 2. 229. Chapman, 154. Gray, Manual, 170. Baillon, Hist. Pl. 3. 331, f. **371.**

T. trifoliata. Linn. Spec. 406. Willd. Spec. 2. 659. Pursh, 313. Haworth. Enum. Saxifr. 58. Spreng. Syst. 2. 361. Seringe, DC. Prodr. 4. 50. Hook. Fl. Bor.-Am. 1. 238. Bongard, Veg. Sitch. 139. Don, Mill. 3. 229. Torr. & Gray, Fl. 1. 588. Eat. & Wr. 452. Dietr. 2. 1538. Cooper, Pac. R. Rep. 12. 62. Rothr. Fl. Alask. 447. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 199. Torrey, Bot. Wilkes, 312.

T. laciniata. Hook. Fl. Bor.-Am. 1. 239, **t. 77.** Don, Mill. 3. 229. Torr. & Gray, Fl. 1. 588. Eat. & Wr. 452. Dietr. 2. 1538. Walp. Rep. 2. 372.

T. stenopetala. Presl, Rel. Haenk. 2. 55. Don, Mill. 3. 229. Dietr. 2. 1538. Walp. Rep. 2. 372.

Blondia trifoliata. Raf. Fl. Tellur. 2. 75.

Petalosteira laciniata. Raf. l. c. 2. 74.

T. unifoliata. Hook. Fl. Bor.-Am. 1. 238, **t. 81.** Don, Mill. 3. 229. Torr. & Gray, Fl. 1. 587. Eat. & Wr. 452. Dietr. 2. 1538. Walp. Rep. 2. 372. Newberry, Pac. R. Rep. 6. 74. Boland. Cat. 11. Gray, Proc. Am. Acad. 8. 383; Bot. Calif. 1. 199.

Heuchera longipetala. Moç. Icon. Fl. Mex. ined. **t. 423.** Seringe, DC. Prodr. 4. 52. Hook. Fl. Bor.-Am. 1. 237. Don, Mill. 3. 231.

Petalosteira unifolia. Raf. Fl. Tellur. 2. 74.

Var. **procera.** Gray, Bot. Calif. 1. 199.

Heuchera Californica. Kellogg, Proc. Calif. Acad. 5. 53.

T. alternifolia; Tellima grandiflora.
biternata; Astilbe decandra.
bracteata; Heuchera bracteata.
colorans; Heuchera glabra.
T. laciniata; trifoliata.
Menziesii; Tolmiea Menziesii.
stenopetala; trifoliata.
unifolia; Mitella nuda.

TOLMIEA Menziesii. Torr. & Gray, Fl. 1. 582. Cooper, Pac. R. Rep. 12. 62. Boland. Cat. 12. Baillon, Hist. Pl. 3. 334, **f. 373.** Torrey, Bot. Wilkes, 311. Gray, Bot. Calif. 1. 197.

Tiarella Menziesii. Pursh, 313. Poir. Suppl. 5. 308. Haworth, Enum. Saxifr. 58. Spreng. Syst. 2. 361. Seringe, DC. Prodr. 4. 50. Hook. Fl. Bor.-Am. 1. 238. Don, Mill. 3. 229. Eat. & Wr. 452. Dietr. 2. 1538.

Heuchera Menziesii. Hook. Fl. Bor.-Am. 1. 237, **t. 80.** Don, Mill. 3. 230.

Leptaxis Menziesii. Raf. Fl. Tellur. 2. 75.

WHIPPLEA modesta. Torrey, Pac. R. Rep. 4. 90, **t. 7.** Boland. in Proc. Calif. Acad. 3. 80; Cat. 12. Baillon, Hist. Pl. 3. 350. Gray, Bot. Calif. 1. 203.

W. Utahensis. Watson, Am. Naturalist, 7. 300. Gray, Bot. Calif. 1. 203.

CRASSULACEÆ.

COTYLEDON cæspitosa. Haworth, Misc. Nat. 180; Syn. Pl. Succ. 107. DC. Rar. Pl. Genèv. 50, **t. 14.** Baker, Refug. Bot. 1, **t. 69.** Brew. & Wats. Bot. Calif. 1. 212.

Sedum Cotyledon. Jacquin, Eclog. 1, **t. 17.** Reichenb. Hort. Bot. 2. 10, **t. 125.**

C. umbiliformis. Ait. f. Hort. Kew. 3. 109. Poir. Suppl. 5. 631.

C. reflexa. Willd. Enum. Suppl. 24.

Echeveria cæspitosa. DC. Prodr. 3. 401. Don, Mill. 3. 113. Torr. & Gray, Fl. 1. 500. Schlecht. in Hort. Hal. 1853, fasc. 3. 18. Walp. Ann. 5. 12. Ill. Hort. 10 Misc. 79.

! *Echeveria campanulata.* Kunze, Del. Sem. h. Lips. 7.

Echeveria lanceolata. Torrey, Bot. Wilkes, 307.

C. edulis. Brewer; Brew. & Wats. Bot. Calif. 1. 211.

Sedum edule. Nutt.; Torr. & Gray, Fl. 1. 500. Dietr. 2. 1021. Walp. Rep 2. 263. Torrey, Mex. Bound. 68.

C. farinosa. Baker, Refug. Bot. 1, **t. 71.** Brew. & Wats. Bot. Calif. 1. 211.

Echeveria farinosa. Lindl. in Journ. Hort. Soc. 4. 292. Walp. Ann. 2. 669 Gray, Proc. Am. Acad. 5. 158? Ill. Hort. 10, Misc. 79.

Echeveria lanceolata. Torrey, Pac. R. Rep. 4. 89, in part. Newberry, Pac. R Rep. 6. 74? Boland. Cat. 12?

Echeveria laxa. Gray, Proc. Am. Acad. 5. 158, in part.

C. Grayii. Baker, Refug. Bot., under t. 71. (Northern Mexico).

Echeveria cæspitosa? Engelm. in Wisliz. Rep. 22

Echeveria paniculata. Gray, Pl. Wright. 1. 76. Walp. Ann. 5. 12. Ill. Hort. 10 Misc. 81.

C. lanceolata. Benth. & Hook. Gen. Pl. 1. 659. Brew. & Wats. Bot. Calif. 1. 212.

Echeveria lanceolata. Nutt.; Torr. & Gray, Fl. 1. 501. Walp. Rep. 2. 2 Ann. 5. 12. Schlecht. in Hort. Hal. 1853, fasc. 3. 18. Torrey, Mex. Bound. 69 part, **t. 24.** Ill. Hort. 10, Misc. 80. Referred doubtfully to *C. cæspitosa* by Baker l. c. under t. 69.

C. laxa. Benth. & Hook. Gen. Pl. 1. 659. Brew. & Wats. Bot. Calif. 1. 212.

Echeveria laxa. Lindl. in Journ. Hort. Soc. 4. 292. Walp. Ann. 2. 669 & 5. 12. Schlecht. l. c. Ill. Hort. 10, Misc. 81.

C. Californica. Baker, Refug. Bot. 1, **t. 70.**

C. Nevadensis. Watson, Bot. Calif. 1. 212.

Echeveria lanceolata. Torrey, Pac. R. Rep. 4. 89, in part

Echeveria laxa. Gray, Proc. Am. Acad 5. 158, in part.

C. Peacockii. Baker, Gard. Chronicle, 1874, 2. 258.

C. pulverulenta. Baker, Refug. Bot. 1, **t. 66.** Brew. & Wats. Bot. Calif.

Echeveria pulverulenta. Nutt.; Torr. & Gray, Fl. 1. 500. Walp. Rep. 2. 25 Ann. 5. 12. Schlecht. in Hort. Hal. 1853, fasc. 3. 18. Torrey, Mex. Bound. Ill. Hort. 10, Misc. 82.

C. strictiflora. Baker, Refug. Bot. 1, under t. 62.

Echeveria strictiflora. Gray, Pl. Wright. 1. 76. Walp. Ann. 5. 12. Torrey Mex. Bound. 68. Ill. Hort. 10, Misc. 83.

DIAMORPHA pusilla. Nutt. Genera, 1. 293. Elliott, 1. 520. Spreng Syst. 2. 260. DC. Prodr. 3. 414; Mem. Crass. 42, **t. 1, f. 9** (fruit). Don, Mill. 3. 125 & Gray, Fl. 1. 501, excl. syn. Michx. Dietr. 2. 1328. Chapman, 150. Wood, Book, 308; Bot. & Fl. 119. Gray, Proc. Am. Acad. 11. 71.

Tillæa (?) cymosa. Nutt. Genera, 1. 110, & Appx.

PENTHORUM sedoides. Linn. Spec. 432. Hill, Veg. Syst. 13, **t. 6, f. 1** Walter, 142. Gaertn. Fruct. 1. 312, **t. 65.** Ait. Hort. Kew. 2. 112. Lam Ill 2. 506, **t. 390.** Willd. Spec. 2. 770. Michx. Fl. 1. 278. Poir. Dict. 5. 161. Persoon, 1. 513. Haworth, Syn. Fl. Succ. 120. Pursh, 323. Bigel. Fl. Bost. 184 Elliott, 1. 528. Torrey, Fl. U. S. 463; Fl. N. Y. 1. 253. Spreng. Syst. 2. 432 DC. Prodr. 3. 414; Mem. Crass. 43, **t. 1, f. 8** (fruit). Hook. Fl. Bor.-Am. 1. 229; Gray

Bot. Mag. 1. 46. Beck, Bot. 133. Don, Mill. 3. 125. Darling. Fl. Cestr. 281. Torr. & Gray, Fl. 1. 562. Eat. & Wr. 347. Dietr. 2. 1627. Gray, Pl. Fendl. 54; Manual, 171. Engelm. Pl. Upp. Miss. 193. Lesqx. Fl. Ark. 361. Chapman, 151. Baillon, Hist. Pl. 3. 396, f. **376, 377**.

SEDUM ACRE, Linn. Gray, Manual, 172. Wood, Cl.-Book, 308.

S. annuum. Linn. Spec. 432, in part. See syn. in Ledeb. Fl. Ross. 2. 186; Koch, Fl. Germ. 3 ed. 223. — Lange, Pl. Groenl. 127. Hook. f. Arct. Pl. 291.

S. debile. Watson, King's Rep. 5. 102. Porter, Hayd. Rep. 1871, 483. Coulter, same, 1872, 766. Brew. & Wats. Bot. Calif. 1. 210.

S. Douglasii. Hook. Fl. Bor.-Am. 1. 228; Lond. Journ. Bot. 6. 231. Don, Mill. 3. 114. Torr. & Gray, Fl. 1. 559. Walp. Rep. 2. 262. Porter, Hayd. Rep. 1871, 483. Torrey, Bot. Wilkes, 308. Brew. & Wats. Bot. Calif. 1. 210.

S. Nevii. Gray, Mem. Am. Acad. 6. 373; Manual, 172. Chapman, 150.

S. obtusatum. Gray, Proc. Am. Acad. 7. 342. Brew. & Wats. Bot. Calif. 1. 209.

S. Oreganum. Nutt.; Torr. & Gray, Fl. 1. 559. Walp. Rep. 2. 262. Dietr. 2. 1618. Cooper, Pac. R. Rep. 12. 61. Brew. & Wats. Bot. Calif. 1. 209.

? *S. sparsiflorum.* Torrey, Bot. Wilkes, 307.

S. pulchellum. Michx. Fl. 1. 277. Persoon, 1. 512. Pursh, 323. Poir. Suppl. 4. 210. Nutt. Genera, 1. 292. Elliott, 1. 529. Torr. & Gray, Fl. 1. 559. Eat. & Wr. 421. Dietr. 2. 1620. Chapman, 150. Gray, Manual, 172. Hook. f. Bot. Mag. t. **6223**.

S. pusillum. Pursh, 323.

S. pulchrum. DC. Prodr. 3. 403. Don, Mill. 3. 116.

S. pumilum. Benth. Pl. Hartw. 310. Walp. Ann. 2. 671. Brew. & Wats. l. c.

S. pusillum. Michx. Fl. 1. 276. Persoon, 1. 513. Poir. Suppl. 4. 210. Eat. & Wr. 421. Gray, Proc. Am. Acad. 11. 71.

S. rhodanthum. Gray, Am. Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 62 (Bull. Soc. Bot. France, 9. 679). Walp. Ann. 7. 921. Porter, Hayd. Rep. 1870, 475; 1871, 483; Fl. Col. 43. Watson, King's Rep. 5. 101. Coulter, Hayd. Rep. 1872, 766. Rothr. Pl. Wheeler, 39.

S. Rhodiola. DC. Fl. Franc. 3 ed. 4. 386; Pl. Grass. t. **143**; Prodr. 3. 401. See syn. in Ledeb. Fl. Ross. 2. 179 (& under *S. elongatum*, 178); Middend. Fl. Taimyr. 10; Regel & Tiling, Fl. Ajan. 88. — Torrey, Ann. Lyc. N. Y. 2. 206; Frem. Rep. 5. Hook. Fl. Bor.-Am. 1. 227. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 558. Eat. & Wr. 421. Gray, Pl. Fendl. 54; Am. Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 62; Manual, 172. Seem. Bot. Herald, 30. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 191 (Kane's Exp. 2. 454). Lange, Pl. Groenl. 127. Hook. f. Arct. Pl. 291 & 328. Pl. Bourgeau, 257. Rothr. Fl. Alask. 446; Pl. Wheeler, 39. Matthew, Pl. Acad. 15. Porter, Hayd. Rep 1870, 475; 1871, 483; Fl. Col. 42. Watson, King's Rep. 5. 101. Coulter, Hayd. Rep. 1872, 766. Brew. & Wats. Bot. Calif. 1. 209.

Rhodiola rosea. Linn. Spec. 1035. Schrank, Pfl. Lab. 24. Meyer, Pl. Lab. 70. Hook. f. in Journ. Linn. Soc. 5. 83.

S. elongatum. Ledeb. Fl. Alt. 2. 193; Fl. Ross. 2. 178.

S. spathulifolium. Hook. Fl. Bor.-Am. 1. 227. Don, Mill. 3. 114. Torr. & Gray, Fl. 1. 559. Dietr. 2. 1618. Walp. Rep. 2. 263. Torrey, Pac. R. Rep. 4. 89; Mex. Bound. 68; Bot. Wilkes, 307. Newberry, Pac. R. Rep. 6. 74. Cooper, same, 12. 61. Boland. Cat. 12. Regel, Gart. Fl. 1872, 297, t. **741, b**. Gray, Proc. Am. Acad. 8. 383. Brew. & Wats. Bot. Calif. 1. 209. Gard. Chronicle, 1876, 1. 820, f. **146**.

S. stenopetalum. Pursh, 324. Poir. Suppl. 5. 751. James, Cat. 181. Spreng. Syst. 2. 435. Torrey, Ann. Lyc. N. Y. 2. 205; Bot. Wilkes, 308. DC. Prodr. 3. 408. Hook. Fl. Bor.-Am. 1. 228; Lond. Journ. Bot. 6. 230. Don, Mill. 3. 120. Nutt. in Journ. Acad. Philad. 7. 23. Torr. & Gray, Fl. 1. 560. Eat. & Wr. 421. Dietr. 2. 1622. Engelm. Pl. Upp. Miss. 193. Newberry, Pac. R. Rep. 6. 74. Gray, Am. Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 62. Pl. Bourgeau, 257. Porter, Hayd. Rep. 1870, 475; 1871, 483; Fl. Col. 43. Watson, King's Rep. 5. 101. Regel, Gart. Fl. 1872, 297, **t. 741, a.** Coulter, Hayd. Rep. 1872, 766. Rothr. Pl. Wheeler, 39. Brew. & Wats. Bot. Calif. 1. 210.

S. lanceolatum. Torrey, Ann. Lyc. N. Y. 2. 205. Don, Mill. 3. 115. Eat. & Wr. 421.

? *S. subclavatum.* Haworth, Phil. Mag. 1831, 414. Don, Mill. 3. 120. Dietr. 2. 1622.

S. telephioides. Michx. Fl. 1. 277. Persoon, 1. 511. Pursh, 324. Poir. Suppl. 4. 206. Elliott, 1. 529. Torrey, Fl. U. S. 464; Fl. N. Y. 1. 252. DC. Prodr. 3. 402. Beck, Bot. 133. Don, Mill. 3. 116. Torr. & Gray, Fl. 1. 558. Eat. & Wr. 421. Dietr. 2. 1620. Chapman, 150. Gray, Manual, 172.

? *S. hæmatodes.* Mill.; DC. Prodr. 3. 404. Don, Mill. 3. 116. Torr. & Gray, Fl. 1. 560. Dietr. 2. 1619.

Anacampseros telephioides. Haworth, Syn. Pl. Succ. 112.

S. Telephium, Linn. Torrey, Fl. N. Y. 1. 252. Wood, Cl.-Book, 308. Gray, Manual, 172.

S. ternatum. Michx. Fl. 1. 277. Persoon, 1. 512. Ait. f. Hort. Kew. 3. 112. Pursh, 324. Ker, Bot. Reg. **t. 142.** Sims, Bot. Mag. **t. 1977.** Elliott, 1. 529. Torrey, Fl. U. S. 463. Spreng. Syst. 2. 434. DC. Prodr. 3. 403. Hook. Fl. Bor.-Am. 1. 228. Beck, Bot. 133. Don, Mill. 3. 115. Darling. Fl. Cestr. 482. Torr. & Gray, Fl. 1. 559. Eat. & Wr. 420. Dietr. 2. 1618. Lesqx. Fl. Ark. 361. Chapman, 150. Gray, Manual, 172.

S. portulacoides. Muhl.; Willd. Enum. 1. 484; Cat. 46. Poir. Suppl. 4. 206.

Anacampseros ternata. Haworth, Syn. Pl. Succ. 114.

S. deficiens. Donn, Hort. Cantab. 6 ed. 126.

S. Torreyi. Don, Mill. 3. 121. Eat. & Wr. 421. Dietr. 2. 1623. Walp. Rep. 2. 263.

S. ——?, nov. sp. Torrey, Ann. Lyc. N. Y. 2. 205.

S. sparsiflorum. Nutt.; Torr. & Gray, Fl. 1. 559. Dietr. 2. 1618. Walp. Rep. 2. 262. Engelm. & Gray, Pl. Lindh. 38. Gray, Pl. Lindh. 209; Hall's Pl. Texas, 9.

S. variegatum. Watson, Proc. Am. Acad. 11. 137. Brew. & Wats. Bot. Calif. 1. 210.

S. villosum. Linn. Spec. 432. Credited to Greenland by Lange, Pl. Groenl. 128 and Hook. f. in Arct. Pl. 291.

S. Wrightii. Gray, Pl. Wright. 1. 76 & 2. 63. Torrey, Pac. R. Rep. 4. 89; Mex. Bound. 68.

SEMPERVIVUM tectorum, Linn. Brew. & Wats. Bot. Calif. 1. 208.

TILLÆA angustifolia. Nutt.; Torr. & Gray, Fl. 1. 558. Walp. Rep. 2. 252. Watson, King's Rep. 5. 101. Gray, Proc. Am. Acad. 8. 383. Torrey, Bot. Wilkes, 308. Rothr. Pl. Wheeler, 39. Brew. & Wats. Bot. Calif. 1. 209.

Var. (?) **Bolanderi.** Watson, Bot. Calif. 1. 209.

T. Drummondii. Torr. & Gray, Fl. 1. 558. Walp. Rep. 2. 252. Gray, Hall's Pl. Texas, 9. Brandegee, Pl. S. W. Colorado, 236.

T. minima. Miers, Trav. Chil. 2. 530. Don, Mill. 3. 98. Hook. & Arn. Bot. Misc. 3. 338. Torr. & Gray, Fl. 1. 557 & 697. Walp. Rep. 2. 252. Gay, Fl. Chil. 2. 529. Watson, Proc. Am. Acad. 11. 115. Brew. & Wats. Bot. Calif. 1. 208.

T. erecta. Hook. & Arn. Bot. Beechey, 24.

T. muscosa. Gay, Fl. Chil. 2. 529.

Var. **subsimplex.** Watson, Bot. Calif. 1. 208; Proc. Am. Acad. 11. 115.

T. leptopetala. Benth. Pl. Hartw. 310. Walp. Ann. 2. 606. Boland. Cat. 12.

T. simplex. Nutt. in Journ. Acad. Philad. 1. 114 (Litt.-Ber. zu Linnæa, 1828, 163); Genera, Appx. Barton, Comp. Fl. Philad. 1. 94. Torrey, Compend. 87; Fl. N. Y. 1. 251. DC. Prodr. 3. 381. Roem. & Schult. Syst. 3. 345. Beck, Bot. 133. Don, Mill. 3. 98. Torr. & Gray, Fl. 1. 557. Gray, Manual, 171.

T. aquatilis. Eaton, Manual, 5 ed. 419. Eat. & Wr. 453.

DROSERACEÆ.

DIONÆA muscipula. Ellis; Linn. Mant. 2. 238 (Nov. Act. Ups. 1. 98, t. **8**). Schreber, Ellis Epist. t. Hill, Decade, t. **5**. Houttuyn, Pil. Syst. 6. 497, t. **50, B**. Walter, 144. Lam. Dict. 2. 283; Ill. 2. 487, t. **362**. Ait. Hort. Kew. 2. 83. Willd. Spec. 2. 574. Michx. Fl. 1. 267. Ventenat, Hort. Malm. 1. 5, t. **29** (Koenig, Ann. Bot. 1. 389). Sims, Bot. Mag. t. **785**. Persoon, 1. 469. Pursh, 304. Turpin, Dict. Sci. Nat. 13. 284, t. **185**. Nutt. Genera, 1. 284. Tratt. Thesaur. Bot. t. **2**. Loisl. Bot. Cab. t. **48**. Elliott, 1. 479. Loiscl. Herb. Amat. 5, t. **349**. DC. Prodr. 2. 20. Spreng. Syst. 2. 330. Don, Mill. 1. 327. Paxton, Mag. Bot. 1, t. **60**. Croom, Am. Journ. Sci. 25. 75 & 26. 315. Curtis, Journ. Bost. Soc. Nat. Hist. 1. 125. Reichenb. Fl. Exot. 5. 35, t. **340**. Torr. & Gray, Fl. 1. 147. Eat. & Wr. 253. Dietr. 2. 1470. Fl. Serres, 3. 280, t. Gray, Genera Ill. 1. 108, t. **84, 85**; Manual, 83. Burnet, Encyc. Pl. 1, t. **109**. Lindl. Veg. Kingd. 433, f. **302**. Schnitzl. Icon. t. **189**, f. **23–31**. Chapman, 37. Maout & Decaisne, Trait. Bot. 46 figs. Wood, Bot. & Fl. 51.

D. sessiliflora. Salisb. Prodr. 321.

D. [illegible]flora. Raf. Atl. Journ. 2. 78; Med. Bot. 2. 217; New. Fl. 4. 17. Walp. Rep. 1. 230.

D. unifloria. Raf. Atl. Journ. 2. 78. Walp. Rep. 1. 230.

D. corymbosa. Raf. Med. Bot. 2. 217.

DROSERA Anglica. Hudson, Fl. Angl. 135. See syn., under *D. longifolia*, in Fries, Nov. Fl. Suec. 2 ed. 82; Ledeb. Fl. Ross. 1. 261; Regel, Fl. Ost.-Sib. 1. 258. — Gray, Fl. Bor.-Am. 1. 81. Torr. & Gray, Fl. 1. 146. Eat. & Wr. 250. Planchon, Ann. Sci. Nat. 3. 9. 200. Brew. & Wats. Bot. Calif. 1. 213.

D. longifolia. Linn. Spec. 282, in part. Hook. f. Arct. Pl. 286.

D. brevifolia. Pursh, 211. Poir. Suppl. 4. 717. Nutt. Genera, 1. 141. Roem. & Schult. Syst. 6. 762. DC. Prodr. 1. 317. Spreng. Syst. 1. 455. Don, Mill. 1. 344. Torr. & Gray, Fl. 1. 146, excl. var. *β*. Eat. & Wr. 250. Dietr. 2. 1018. Lindl. & Gray, Pl. Lindh. 4. Planch. in Ann. Sci. Nat. 3. 9. 191. Chapman, 37. Wood, Cl.-Book, 251; Bot. & Fl. 51. Gray, Hall's Pl. Texas, 5.

D. capillaris. Poir. Dict. 6. 299. DC. Prodr. 1. 318. Don, Mill. 1. 344. Dietr. 2. 1018. Pl. Preis. 1. 1. 1. Chapman, 37. Wood, Bot. & Fl. 51. Gray, l. c.

D. rotundifolia, var. *major*. Hook. Journ. Bot. 1. 194. Torr. & Gray, Fl. 1. 146.

D. minor. Wood, Cl.-Book, 251.

D. filiformis. Raf. in Med. Rep. 5. 360; Desv. Journ. Bot. 1. 227. Pursh, 211 Poir. Suppl. 4. 717 & 718. Nutt. Genera, 1. 142. Roem. & Schult. Syst. 6. 763 DC. Prodr. 1. 318. Torrey, Fl. U. S. 332; Fl. N. Y. 1. 82, **t. 10.** Spreng. Syst 1. 955. Don, Mill. 1. 345. Beck, Bot. 42. Graham, Edinb. Phil. Journ. 1826 July. Hook. Bot. Mag. **t. 3540.** Torr. & Gray, Fl. 1. 147. Eat. & Wr. 230 Dietr. 2. 1018. Gray, Gen. Ill. 1. 194, **t. 83**; Manual, 83. Planch. l. c. 201.

D. tenuifolia. Willd. Enum. 340. Poir. Suppl. 4. 717. Muhl. Cat. 33. Roem & Schult. Syst. 6. 763. Bigel. Fl. Bost. 2 ed. 124.

D. intermedia. Drev. & Hayne, Abbild. Deutsch. Gewach. 1. 18, **t. 3, B**; Pl Europ. 43, **t. 75, B.** See syn. in Koch, Fl. Germ. 3 ed. 78; Planch, l. c. 198.— Hook. f. Arct. Pl. 286. Regel, Fl. Ost-Sib. 1. 259. Brew. & Wats. Bot. Calif 1. 213.

D. longifolia. Linn. Spec. 282, in part.

Var. **Americana.** DC. Prodr. 1. 318. Don, Mill. 1. 345. Griseb. Fl. Brit. W Ind. 27. Eichler, Mart. Fl. Bras. 14², 392, **t. 90, f. 2.**

D. longifolia. Michx. Fl. 1. 186. Poir. Dict. 6. 208. Pursh, 211. Nutt. Genera 1. 141. Roem. & Schult. Syst. 6. 761. Elliott, 1. 376. DC. Prodr. 1. 318. Bigel Fl. Bost. 2 ed. 123. Torrey, Fl. U. S. 331; Fl. N. Y. 1. 82. Spreng. Syst. 1 955 Don, Mill. 1. 345. Beck, Bot. 42. Hook. in Lond. Journ. Bot. 1. 194. Torr & Gray, Fl. 1. 146. Eat. & Wr. 230. Dietr. 2. 1018. Chapman, 37. Gray, Manual, 82.

D. Americana. Willd. Enum. 340. Muhl. Cat. 33. Poir. Suppl. 4. 718. Roem & Schult. Syst. 6. 765. Bertol. Bol. Misc. 10. 32.

D. foliosa. Elliott, 1. 376 (Spreng. Neue Entdeck. 2. 195). DC. Prodr. 1 Eaton, Man. 5 ed. 205. Don, Mill. 1. 346. Dietr. 2. 1019.

D. intermedia, var. *elatior.* Planch. l. c. 199.

D. linearis. Goldie, Edinb. Phil. Journ. 1822, 325. Hook. Fl. Bor.-Am. 1 **t. 27, A.** Torr. & Gray, Fl. 1. 146. Walp. Rep. 1. 227. Eat. & Wr 230. Pl l. c. 200. Gray, Manual, 82. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12

D. rotundifolia. Linn. Spec. 282. See syn. in Ledeb. Fl. Ross. 1. 231; Fl. Ost-Sib. 1. 257; Pritzel, Ind. Ic. Bot. 1. 383 & 2. 111.—Walter, 118. Spec. 1. 1543. Michx. Fl. 1. 186. Poir. Dict. 6. 209. Persoon, 210. Bigel. Fl. Bost. 123. Nutt. Genera, 1. 141. Elliott, 1. 375. Roem. & Syst. 6. 760. DC. Prodr. 1. 318. Torrey, Fl. U. S. 331; Fl. N. Y. 1. 81. & Schlecht. in Linnæa, 1. 547. Hook. Fl. Bor.-Am. 1. 81. Bongard, Veg. 126. Beck, Bot. 42. Schlecht. Fl. Lab. in Linnæa, 10. 102. Darling. Fl 211. Torr. & Gray, Fl. 1. 146. Eat. & Wr. 229. Planchon, l. c. 198 Pl. Minn. 609. Cooper, Pac. R. Rep. 12. 56. Chapman, 37. Hook. f. 286. Rothr. Fl. Alask. 444. Gray, Manual, 82. Millington, Am. Nat 2. 107. Treat, Am. Journ. Sci. 3. 2. 463; Am. Naturalist, 7. 705. Bot. Calif. 1. 213.

HAMAMELACEÆ.

FOTHERGILLA Gardeni. Linn.; Murr. Syst. Veg. 418. Marsh. Arbus Schkuhr, Handb. 2. 79, **t. 143.** Jacq. Icon. Rar. 1, **t. 100**; Coll. 1. 79. Michx 1. 313. Lodd. Bot. Cab. **t. 1507.**

Hamamelis ——? Linn. Syst. Nat. 12 ed. (1767), 2. 129, under *H.*

Hamamelis Virginiana Carolina. Linn. Mant. 2. 333. Willd. Spec. 1. 701

Fothergilla alnifolia. Linn. f. Suppl. 267. Lam. Dict. 2. 523; Ill. 3. 30, **t. 480.** Ait. Hort. Kew. 2. 241. Willd. Arb. 113; Spec. 2. 1224; Enum. 573. Persoon, 2. 81. Loisel. in Nouv. Duham. 4. 103, **t. 26.** Sims, Bot. Mag. **t. 1341, 1342.** Pursh, 335. Smith, Rees Cycl. 17. Nutt. Genera, 1. 304. Turpin, Dict. Sci. Nat. 17. 271, **t. 199.** Elliott, 1. 547. Guimp. Otto & Hayne, **t. 16.** Spreng. Syst. 2. 612. Lodd. Bot. Cab. **t. 1576.** DC. Prodr. 4. 270. Don, Mill. 3. 397. Spach, Hist. Veg. 8. 84. Torr. & Gray, Fl. 1. 597. Eat. & Wr. 246. Dietr. 3. 271. Loud. Arb. 2. 1008, **f. 758, 759.** Agardh, Theor. Syst. **t. 13, f. 5, 6.** Curtis, Bot. N. Car. 106. Chapman, 157. Gray, Manual, 173. Baillon, Adansonia, 10. 127; Hist. Pl. 3. 395, **f. 468–470.**

? *Hamamelis monoica.* Walter, 255. Gmel. Syst. 1. 282.

F. major. Lodd. Bot. Cab. **t. 1520.**

? *Trilopus æstivalis.* Raf. New Fl. 3. 16.

HAMAMELIS Virginiana. Linn. Spec. 124. Wangenh. Amer. 89, **t. 29, f. 62.** Marsh. Arbust. 58. Lam. Dict. 3. 68; Ill. 1. 350, **t. 88.** Ait. Hort. Kew. 1. 197. Schkuhr, Handb. 1. 88, **t. 27.** Willd. Spec. 1. 701; Enum. 171. Michx. Fl. 1. 100. Persoon, 1. 150. Pursh, 116. Bigel. Fl. Bost. 61. Nutt. Genera, 1. 107. Nouv. Duham. 7, **t. 60.** Elliott, 1. 219. Roem. & Schult. Syst. 3. 483. Lodd. Bot. Cab. **t. 598.** James, Long's Exp. 1. 54 & 3. 149. Barton, Fl. N. Am. 3. 21, **t. 78.** Torrey, Fl. U. S. 192; Fl. N. Y. 1. 260. Guimp. Otto & Hayne, **t. 75.** Spreng. Syst. 1. 491. Raf. Med. Bot. 1. 227, **f. 45.** DC. Prodr. 4. 268. Hook. Fl. Bor.-Am. 1. 275; Comp. Bot. Mag. 1. 48. Don, Mill. 3. 396, **f. 69.** Beck, Bot. 152. Darling. Fl. Cestr. 114. Spach, Hist. Veg. 8. 79. Dietr. 1. 550. Torr. & Gray, Fl. 1. 597. Eat. & Wr. 280. Loud. Arb. 2. 1007, **f. 756, 757.** Emerson, Trees of Mass. 416, & 2 ed. 2. 472, **t.** Engelm. Pl. Upp. Miss. 193. Agardh, Theor. Syst. **t. 13, f. 7.** Schnitzl. Icon. **t. 167, f. 18–25, 27–29.** Curtis, Bot. N. Car. 106. Lesqx. Fl. Ark. 362. Chapman, 157. Gray, Manual, 173; Am. Journ. Sci. 2. 24. 438 & 3. 5. 144. Baill. ll. cc. 123, & 380, **f. 462–464.** Maout & Decne. 258, **figs.**

H. dioica & androgyna? Walter. 255. Gmelin, Syst. Veg. 1. 281 & 282.

H. cordifolia. Moench, Meth. 273.

H. [illegible]. Pursh, 116. Poir. Suppl. 5. 698. Elliott, 1. 220. Roem. & Schult. Syst. 3. 483. Raf. Med. Bot. 1. 230. Don, Mill. 3. 396. Eat. & Wr. 261.

H. [illegible], nana, nigra, rotundifolia & dentata. Raf. New Fl. 3. 15–17.

[illegible]pa vifolia. Nutt. Genera, 1. 107. Torrey, Fl. U. S. 193. Don, Mill. [illegible]. Beck, Bot. 152. Torr. & Gray, Fl. 1. 597.

H. parvifolia. Raf. Med. Bot. 1. 230. *Trilopus parvifolia.* Raf. New Fl. 3. 17.

LIQUIDAMBAR Styraciflua. Linn. Spec. 999. Marsh. Arbust. 77. Walter. [illegible] Lam. Dict. 3. 533; Ill. 3. 307, **t. 783.** Ait. Hort. Kew. 3. 365. Gaertn. [illegible] 2. **t. 90.** Moench, Meth. 340. Willd. Spec. 4. 475; Enum. 985. Michx. Fl. [illegible]. Persoon, 2. 573. Schkuhr, Handb. 3. 275, **t. 307.** Loisel. Nouv. Duham. 2. **t. 10,** & 7. 207, **t. 60.** Michx. f. Arb. Am. 3. 194, **t. 4.** Pursh, 635. Nutt. Genera, 2. 219; Fl. Ark. 168. Nees, Pl. Offic. **t. 95.** Elliott, 2. 621. Spreng. Syst. [illegible] HBK. Nov. Gen. 7. 273. Audubon, Birds, **t. 45.** Torrey, Compend. 357; Fl. N. Y. 1. 271. Beck, Bot. 326. Hook. Comp. Bot. Mag. 2. 64. Eat. & Wr. 302. [illegible] 10. 84. Loud. Arb. 4. 2049, **f. 1961,** & **t. 353, 354.** Broomfield, [illegible] 7. 144. Schnitzl. Icon. **t. 98.** Seem. Bot. Herald, 346. Curtis, [illegible] Lesqx. Fl. Ark. 362. Chapman, 157. A. DC. Prodr. 16². 157. [illegible] Icon. 11. 13. Gray, Manual, 174. Maout & Decaisne, 520, **figs.** [illegible] 11. 3. 397, **f. 471–474.** Ridgway, Am. Naturalist, 6. 604.

L. [illegible] var. *Mexicana.* Oersted, Am. Centr. 16, **t. 11.**

L. [illegible] Oersted, Am. Centr. 16, **t. 10.** fide A. DC. l. c.

HALORAGEÆ.

HIPPURIS maritima. Hellenius, Diss. Hipp. in Usteri, Del. Opusc. 1. 11, **t. 1.** See syn. in DC. Prodr. 3. 72; Ledeb. Fl. Ross. 2. 120. [Hornem. Fl. Dan. 8. 3, **t. 1261.** Reichenb. Icon. Bot. **t. 86, f. 182.** Retz, Obs. Bot. 3. 7, **t. 1.**]—Cham. in Linnæa, 4. 507, under *H. vulgaris.* Hook. Fl. Bor.-Am. 1. 218. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 531. Eat. & Wr. 271. Seem. Bot. Herald, 30. Rothr. Fl. Alask. 446. Made a variety of *H. vulgaris* by Wahlenberg, Fries, Koch, & Hook. f.

H. tetraphylla. Linn. f. Suppl. 81. Richard. Frankl. Journ. Appx. 2.

H. vulgaris, var. *maritima.* Wahlenb. Fl. Suec. 2. Lange, Pl. Groenl. 134.

H. montana. Ledeb. in Reichenb. Icon. Bot. 1. 71, **t. 86, f. 81**; Fl. Ross. 2. 120. DC. Prodr. 3. 71. Cham. in Linnæa, 4. 507. Hook. Fl. Bor.-Am. 1. 218. Don, Mill. 2. 705. Dietr. 1. 26. Torr. & Gray, Fl. 1. 531. Eat. & Wr. 271. Maximowicz, Prim. Fl. Amur. 107. Rothr. Fl. Alask. 446. Also referred to *H. vulgaris* by Hook. f. Arct. Pl. 328.

H. vulgaris. Linn. Spec. 4. See syn. in Willd. Spec. 1. 26; Ledeb. Fl. Ross. 2. 119; Pritzel, Index Icon. Bot. 1. 553 & 2. 150.—Michx. Fl. 1. 1. Barton, Bot. Appx. 22, **t. 8.** Pursh, 3. Nutt. Genera, 1. 3. Schrank, Pfl. Lab. 3. Roem. & Schult. Syst. 1. 41. Torrey, Fl. U. S. 2; Fl. N. Y. 1. 244; Nicol. Rep. 150; Pac. R. Rep. 4. 88. Turpin, Dict. Sci. Nat. 39. 188, **t. 220.** Cham. in Linnæa, 4. 506. DC. Prod. 3. 71. Hook. Fl. Bor.-Am. 1. 217; Comp. Bot. Mag. 1. 46. Meyer, Pl. Lab. 73. Beck, Bot. 123. Schlecht. Fl. Lab. in Linnæa, 10. 97. Bigel. Fl. Bost. 3 ed. 3. Torr. & Gray, Fl. 1. 531. Eat. & Wr. 271. Gray, Pl. Fendl. 47; Struct. Bot. 419, **f. 826–829**; Proc. Acad. Philad. 1863, 61; Manual, 176. Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 192. Hook. f. in Journ. Linn. Soc. 1. 121. Arct. Pl. 291 & 328. Pl. Bourgeau, 256. Rothr. Fl. Alask. 446; Pl. Wheeler. 3. Matthew, Fl. Acad. 20. Boland. Cat. 12. Watson, King's Rep. 5. 102. Coulter. Hayd. Rep. 1872, 766. Porter, Pl. Col. 43. Brew. & Wats. Bot. Calif. 1. 215.

H. polyphylla. Raf. Fl. Lud. 13.

MYRIOPHYLLUM alterniflorum. DC. Fl. Franc. Suppl. 529; Prodr. 3. 68. —Credited to Greenland by Lange, Pl. Groenl. 134, and Hook. f. in Arct. Pl. 291.

M. ambiguum. Nutt. Genera, 2. 212. Torrey, Compend. 355; Fl. N. Y. 1. 243. Spreng. Syst. 3. 853. DC. Prodr. 3. 70. Don, Mill. 2. 704. Beck, Bot. 122. Torr. & Gray, Fl. 1. 530. Eat. & Wr. 325. Walp. Rep. 2. 98. Dietr. 5. 302. Gray, Manual, 175.

Var. **capillaceum.** Torr. & Gray, l. c. Torrey, l. c. 243. Gray, Manual, 175.

M. capillaceum. Torrey, Compend. 355. Beck, Bot. 122. Eat. & Wr. 324.

Var. **limosum.** Torrey, Compend. 355; Fl. N. Y. 1. 243, **t. 98.** DC. Prodr. 3. 70. Torr. & Gray, Fl. 1. 530. Gray, Manual, 175.

Burshia humilis. Raf. in N. Y. Med. Rep. 2. 361; Desv. Journ. Bot. 1. 219. Roem. & Schult. Syst. 3. 480.

Ptilophyllum humilis. Raf. Nov. Gen. 1811.

M. limosum. Nutt. Genera, 2. 212.

M. procumbens. Bigel. Fl. Bost. 2 ed. 346. Hook. Fl. 1. 216. Beck, Bot. 123.

M. heterophyllum. Michx. Fl. 2. 191. Persoon, 2. 563. Poir. Dict. 8. 686. Pursh, 274. Elliott, 2. 588. Spreng. Syst. 3. 853. Torrey, Compend. 355; Fl. N. Y. 1. 242.; Mex. Bound. 66. DC. Prodr. 3. 69. Don, Mill. 2. 703. Beck, Bot.

122. Hook. Comp. Bot. Mag. 1. 46. Nutt. Fl. Ark. 141. Torr. & Gray, Fl. 1. 529. Eat. & Wr. 324. Gray, Pl. Lindh. 191; Pl. Wright. 1. 72 & 2. 59; Manual, 175. Dietr. 5. 302. Chapman, 143.

Potamogeton verticillatum. Walter, 90.

M. hippuroides. Nutt.; Torr. & Gray, Fl. 1. 530. Walp. Rep. 2. 98. Dietr. 5. 302. Gray, Proc. Am. Acad. 8. 383. Brew. & Wats. Bot. Calif. 1. 215.

M. scabratum. Cham. in Linnæa, 4. 506.

M. laxum. Shuttleworth; Chapman, 143. Young, Fl. Texas, 272.

M. scabratum. Michx. Fl. 2. 190. Persoon, 2. 563. Poir. Dict. 8. 686. Pursh, 274. Elliott, 2. 588. Spreng. Syst. 3. 853. DC. Prodr. 3. 69. Don, Mill. 2. 704. Hook. l. c. 1. 46. Nutt. Fl. Ark. 141. Torr. & Gray, Fl. 1. 529. Eat. & Wr. 325. Dietr. 5. 302. Chapman, 144. Gray, Manual, 175; Hall's Pl. Texas, 9.

Potamogeton pinnatum. Walter, 90.

M. spicatum. Linn. Spec. 992. See syn. in Willd. Spec. 4. 406; Ledeb. Fl. Ross. 2. 118; Pritzel, Ind. Ic. Bot. 1. 732 & 2. 190. — Michx. Fl. 2. 190. Poir. Dict. 8. 684. Pursh, 274. Bigel. Fl. Bost. 345. James, Long's Exp. 2. 142. Richard. Frankl. Journ. 23. Spreng. Syst. 3. 853. Torrey, Compend. 354; Fl. N. Y. 1. 242; Nicol. Rep. 150. DC. Prodr. 3. 68. Hook. Fl. Bor.-Am. 1. 216. Don, Mill. 2. 703. Beck, Bot. 122. Nutt. Fl. Ark. 141. Torr. & Gray, Fl. 1. 529. Eat. & Wr. 324. Engelm. Pl. Upp. Miss. 192. Hook. f. Arct. Pl. 291 & 328. Pl. Bourgeau, 256. Gray, Manual, 175. Brew. & Wats. Bot. Calif. 1. 215.

M. tenellum. Bigel. Fl. Bost. 2 ed. 346. Torrey, Compend. 355; Fl. N. Y. 1. 243. DC. Prodr. 3. 68. Hook. Fl. Bor.-Am. 1. 216. Don, Mill. 2. 704. Beck, Bot. 122. Torr. & Gray, Fl. 1. 530. Eat. & Wr. 325. Dietr. 5. 302. Gray, Manual, 175.

M. verticillatum. Linn. Spec. 992. See syn. in Willd. Spec. 4. 407; Ledeb. Fl. Ross. 2. 118; Pritzel, Index Icon. Bot. 1. 732. — Michx. Fl. 2. 190. Poir. Dict. 8. 685. Pursh, 274. Nutt. Genera, 2. 211. Elliott, 2. 588. Spreng. Syst. 3. 853. Torrey, Compend. 355; Ann. Lyc. N. Y. 2. 252; Fl. N. Y. 1. 242; Bot. Wilkes, 300. DC. Prodr. 3. 68. Hook. Fl. Bor.-Am. 1. 216. Don, Mill. 2. 703. Beck, Bot. 122. Torr. & Gray, Fl. 1. 529. Eat. & Wr. 324. Parry, Pl. Minn. 612. Chapman, 143. Pl. Bourgeau, 256. Gray, Manual, 175. Watson, King's Rep. 5. 102. Coulter, Hayd. Rep. 1872, 766.

PROSERPINACA palustris. Linn. Spec. 88. Hill, Veg. Syst. 25, **t. 60, f. 1.** Walter, 84. Lam. Ill. 1. 214, **t. 50, f. 2.** Willd. Spec. 1. 488. Michx. Fl. 1. 76, excl. var. Jussieu, Ann. Mus. 3. 320, **t. 30, I** (Koenig & Sims, Ann. Bot. 1. 535, **t. 12, I**). Persoon, 1. 111. Poir. Dict. 8. 118. Bigel. Fl. Bost. 48. Elliott, 1. 181. Roem. & Schult. Syst. 2². 873. Torrey, Fl. U. S. 161; Fl. N. Y. 1. 241; Mex. Bound. 66. Spreng. Syst. 1. 416. DC. Prodr. 3. 67. Hook. Fl. Bor.-Am. 1. 215; Comp. Bot. Mag. 1. 26. Don, Mill. 2. 702. Nutt. Fl. Ark. 141. Beck, Bot. 121. Dietr. 1. 416. Torr. & Gray, Fl. 1. 528. Eat. & Wr. 370. Gray, Pl. Wright. 1. 72 & 2. 59; Manual, 175; Hall's Pl. Texas, 9. Chapman, 143.

Teiris palustris. Gaertn. Fruct. 1. 115, **t. 24, f. 8.**

P. pectinata. Lam. Ill. 1. 214, **t. 50, f. 1.** Pursh, 92. Elliott, 1. 182. Roem. & Schult. Syst. 2². 874. Torrey, Fl. U. S. 162; Fl. N. Y. 1. 241. Spreng. Syst. 1. 416. DC. Prodr. 3. 67. Don, Mill. 2. 703. Beck, Bot. 121. Hook. Comp. Bot. Mag. 1. 26. Dietr. 1. 416. Torr. & Gray, Fl. 1. 528. Eat. & Wr. 370. Bigel. Fl. Bost. 2 ed. 350. Gray, Pl. Lindh. 191; Manual, 175. Chapman, 143.

P. palustris, var. *β.* Michx. Fl. 1. 76. Poir. Dict. 8. 118.

Myriophyllum fulvescens. Bertoloni, Bot. Misc. 16. 23, **t. 1** (Bot. Zeit. 14. 785); Mde Gray, Am. Journ. Sci. 2. 24. 287.

RHIZOPHORACEÆ.

RHIZOPHORA Mangle. Linn. Spec. 443. See syn. in Willd. Spec. 2. 844; Griseb. Fl. Brit. W. Ind. 274; Pritzel, Ind. Icon. Bot. 1. 933. — DC. Prodr. 3. 32. Torr. & Gray, Fl. 1. 484. Benth. Bot. Sulph. 14. Chapman, 135. Vasey, Cat. Forest Trees, 15.

R. Americana. Nutt. Sylva, 1. 95, **t. 24.** Cooper, Smithson. Rep. 1858, 264.

COMBRETACEÆ.

CONOCARPUS erectus. Linn. Spec. 176. See syn. in Willd. Spec. 1. 994; Eichler, Mart. Fl. Bras. 14². 101; Pritzel, Ind. Icon. Bot. 1. 204. — DC. Prodr. 3. 16. Torr. & Gray, Fl. 1. 485. Nutt. Sylva, 1. 113, **t. 33.** Griseb. Fl. Brit. W. Ind. 277. Eichler, l. c. **t. 35, f. 11.** Vasey, Cat. Forest Trees, 15.

Var. **sericeus.** Forst.; DC. Prodr. 3. 16. Nutt. l. c. 116. Chapman, 136.

LAGUNCULARIA racemosa. Gaertn. Fruct. 3. 209, **t. 217.** See syn. in Willd. Spec. 1. 995 (under *Conocarpus*, Linn.); DC. Prodr. 3. 17; Eichler, l. c. 102, **t. 35, f. III.** — Nutt. Sylva, 1. 117, **t. 34.** Benth. Bot. Sulph. 14. Chapman, 136. Vasey, Cat. Forest Trees, 15.

L. glabrifolia. Presl, Rel. Haenk. 2. 22. Chapman, 136.

TERMINALIA Catappa, Linn. Torr. & Gray, Fl. 1. 485. Nutt. Sylva. 1. 119, **t. 32.** Chapman, 137.

MYRTACEÆ.

CALYPTRANTHES Chytraculia. Swartz, Prodr. 79. See syn. in DC. Prodr. 3. 257; Berg, Linnæa, 27. 26; Griseb. Fl. Brit. W. Ind. 232. — Nutt. Sylva, 1. 101, **t. 26.** Chapman, 131. (Key West; introduced?)

EUGENIA buxifolia. Willd. Spec. 960. See syn. in DC. Prodr. 3. 275; Griseb. Fl. Brit. W. Ind. 236. — Nutt. Sylva, 1. 103, **t. 27.** Chapman, 131. Vasey, Cat. Forest Trees, 15.

E. triplinervia. Berg, Linnæa, 27. 190, in part.

E. Cabanisiana. Berg, Linnæa, 27. 235.

E. dichotoma. DC. Prodr. 3. 278. See syn. in Nutt. Sylva, 1. 103; Griseb. Fl. Brit. W. Ind., under *Anamomis punctata.* — Nutt. l. c. **t. 27.** Berg, Linnæa, 27. 231. Chapman, 131. Vasey, l. c. 15.

E. dicrana. Berg, Linnæa, 27. 259.

E. longipes. Berg, Linnæa, 27. 150.

E. monticola. DC. Prodr. 3. 275. See syn. in Griseb. l. c. 236. — Chapman, 131. Vasey, l. c. 15.

E. triplinervia & *axillaris.* Berg, Linnæa, 27, 190 & 201, in part.

E. procera. Poir. Suppl. 2. 129. DC. Prodr. 3. 268. See Griseb. l. c. 238. — Nutt. Sylva, 1. 106, **t. 28.** Berg, Linnæa, 27. 207. Chapman, 131. Vasey, l. c. 15.

PSIDIUM buxifolium. Nutt. Sylva, 1. 98, **t. 25.** Berg, Linnæa, 27. 371.

P. GUAYAVA, Raddi. See Berg, l. c. 366; Mart. Fl. Bras. 14¹. 395.

P. pyriforme, Linn. Vasey, Cat. Forest Trees, 15.

MELASTOMACEÆ.

RHEXIA ciliosa. Michx. Fl. 1. 221. Poir. Dict. 6. 4. Persoon, 1. 406. Pursh, 258, **t. 10.** Nutt. Genera, 1. 243. Elliott, 1. 439. Torrey, Fl. U. S. 386. Spreng. Syst. 2. 310. DC. Prodr. 3. 122. Sweet, Brit. Fl. Gard. **t. 298.** Don, Mill. 2. 746. Beck, Bot. 127. Hook. Comp. Bot. Mag. 1. 46. Spach, Hist. Veg. 4. 227. Torr. & Gray, Fl. 1. 478. Eat. & Wr. 391. Dietr. 2. 1272. Naudin, Melast. Monogr. in Ann. Sci. Nat. 3. 15. 65. Chapman, 132. Gray, Manual, 182.

! *R. petiolata.* Walter, 130. Persoon, 1. 409.

R. glabella. Michx. Fl. 1. 222. Persoon, 1. 406. Nutt. Genera, 1. 244. Elliott, 1. 438. Humb. & Bonpl. Monogr. Melast. 2, **t. 44.** Spreng. Syst. 2. 310. DC. Prodr. 3. 122. Don, Mill. 2. 746. Hook. Comp. Bot. Mag. 1. 46. Spach, Hist. Veg. 4. 227. Torr. & Gray, Fl. 1. 478. Eat. & Wr. 391. Dietr. 2. 1272. Naudin, l. c. 65. Chapman, 132. Wood, Cl.-Book, 347; Bot. & Fl. 122.

R. Alifanus, var. **β.** Poir. Dict. 6. 3.

Var. β. Torr. & Gray, Fl. 1. 478.

R. Alifanus. Walter, 130. Poir. Dict. 6. 3. Persoon, 1. 406.

R. lanceolata. Walter, 129. Lam. Ill. 2. 424, **t. 283, f. 3.** Torr. & Gray, Fl. 1. 477. Naudin, l. c. 66. Wood, Cl.-Book, 347.

R. Mariana, var. *exalbida.* Michx. Fl. 1. 222. Poir. Dict. 6. 2. Chapman, 132.

R. trichotoma, var. *exalbida.* Persoon, 1. 406.

R. angustifolia. Nutt. Genera, 1. 244. Elliott, 1. 438. Spreng. Syst. 2. 310. DC. Prodr. 3. 122. Don, Mill. 2. 747. Hook. Comp. Bot. Mag. 1. 46. Spach, Hist. Veg. 4. 226. Eat. & Wr. 391. Dietr. 2. 1272.

R. lutea. Walter, 130. Michx. Fl. 1. 222. Poir. Dict. 6. 3. Persoon, 1. 406. Pursh, 258, **t. 10.** Nutt. Genera, 1. 244. Elliott, 1. 440. Spreng. Syst. 2. 311. DC. Prodr. 3. 122. Don, Mill. 2. 747. Hook. Comp. Bot. Mag. 1. 46. Spach, Hist. Veg. 4. 228. Torr. & Gray, Fl. 1. 478. Eat. & Wr. 391. Dietr. 2. 1272. Naudin, l. c. 65. Chapman, 133. Wood, Cl.-Book, 348; Bot. & Fl. 123.

R. Mariana. Linn. Spec. 346. Hill, Veg. Syst. 10. 51, **t. 51, f. 2.** Walter, 130. Ait. Hort. Kew. 2. 2. Lam. Ill. 2. 424, **t. 283, f. 1.** Gaertn. Fruct. **t. 112.** Willd. Spec. 2. 301. Michx. Fl. 1. 222, excl. var. γ. Poir. Dict. 6. 1. Persoon, 1. 406. Pursh, 257. Lodd. Bot. Cab. **t. 366.** Humb. & Bonpl. Monogr. Melast. 1, **t. 47.** Elliott, 1. 437. Barton, Fl. N. Am. 1. 97, **t. 27.** Sweet, Brit. Fl. Gard. **t. 41.** Torrey, Fl. U. S. 386. Spreng. Syst. 2. 310. DC. Prodr. 3. 121. Don, Mill. 2. 746, **f. 109.** Beck, Bot. 127. Spach, Hist. Veg. 4. 226. Hook. Comp. Bot. Mag. 1. 46. Maund, Botanist, 1, **t. 28.** Torr. & Gray, Fl. 1. 477. Eat. & Wr. 391. Naudin, l. c. 64. Chapman, 132. Gray, Manual, 181; Hall's Pl. Texas, 9.

! *R. Ludoviciana.* Raf. Fl. Lud. 92.

R. serrulata. Nutt. Genera, 1. 243. DC. Prodr. 3. 122. Don, Mill. 2. 746. Torr. & Gray, Fl. 1. 478. Eat. & Wr. 391. Dietr. 2. 1272. Naudin, l. c. 66. Chapman, 133. Wood, Cl.-Book, 348; Bot. & Fl. 122.

R. stricta. Pursh, 258. Elliott, 1. 439. Spreng. Syst. 2. 310. DC. Prodr. 3. 122. Don, Mill. 2. 746. Torr. & Gray, Fl. 1. 477. Eat. & Wr. 391. Dietr. 2. 1272. Naudin, l. c. 66. Chapman, 132. Wood, Cl.-Book, 347; Bot. & Fl. 122.

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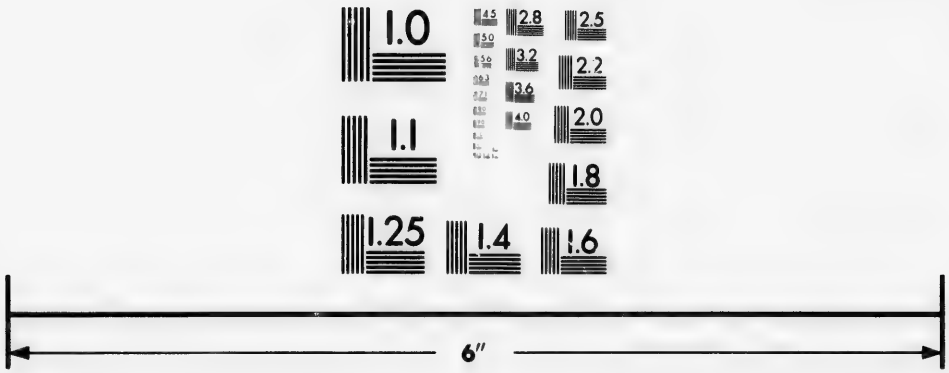

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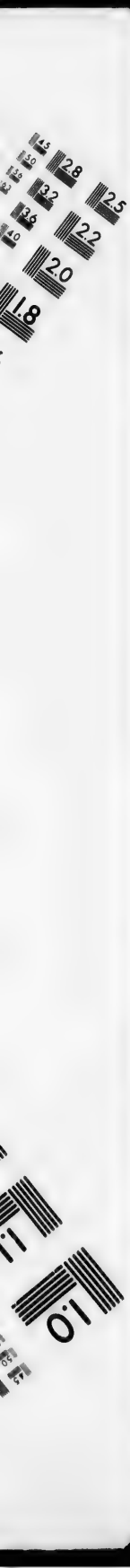
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Sabbatia simplex. Bertoloni, Bot. Misc. 10. 27, **t. 3** (Bot. Zeit. 9. 919.); fide Gray, Am. Journ. Sci. 2. 14. 115.

R. Virginica. Linn. Spec. 346. Hill, Veg. Syst. 10. 51, **t. 51, f. 1.** Lam. Ill. 2. 424, **t. 283, f. 2.** Willd. Spec. 2. 301. Michx. Fl. 1. 222. Poir. Dict. 6. 1. B. S. Barton, Bot. Appx. 26, **t. 16.** Persoon, 1. 406. Sims, Bot. Mag. **t. 968.** Ait. f. Hort. Kew. 2. 340. Pursh, 258. Bigel. Fl. Bost. 148. Elliott, 1. 439. Barton, Fl. N. Am. 1. 13, **t. 4.** James, Long's Exp. 3. 33. Lodd. Bot. Cab. **t. 840.** Torrey, Fl. U. S. 385; Ann. Lyc. N. Y. 2. 199; Fl. N. Y. 1. 227. Spreng. Syst. 2. 310. Maund, Bot. Gard. 3, **t. 129.** DC. Prodr. 3. 121. Don, Mill. 2. 746. Beck, Bot. 127. Spach, Hist. Veg. 4. 227. Hook. Comp. Bot. Mag. 1. 46. Reichenb. Fl. Exot. **t. 234.** Darling. Fl. Cestr. 242. Torr. & Gray, Fl. 1. 477. Eat. & Wr. 390. Dietr. 2. 1272. Naudin, l. c. 64. Chapman, 132. Gray, Manual, 181. Wright, Am. Naturalist, 7. 692. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 327.

R. septemnervia. Walter, 130.

LYTHRACEÆ.

AMMANNIA dentifera. Gray, Pl. Wright. 2. 55.

A. humilis. Michx. Fl. 1. 99. Persoon, 1. 147. Pursh, 107. Roem. & Schult. Syst. 3. 302. Elliott, 1. 218. Bigel. Fl. Bost. 2 ed. 53. Torrey, Fl. U. S. 189; Fl. N. Y. 1. 228. Spreng. Syst. 1. 443. DC. Prodr. 3. 79. Don, Mill. 2. 709. Beck, Bot. 125. St. Hilaire, Ann. Sci. Nat. 2. 1. 8. Hook. Comp. Bot. Mag. 1. 46. Torr. & Gray, Fl. 1. 480. Dietr. 1. 506. Eat. & Wr. 122. Seem. Bot. Herald, 284. Chapman, 134. Griseb. Fl. Brit. W. Ind. 270. Gray, Manual, 182; Hall's Pl. Texas, 9.

A. ramosior. Linn. Spec. 120. Walter, 88. Ait. Hort. Kew. 1. 163. Fisch. & Meyer, Ind. Sem. Petrop. 7. 41 (Litt.-Ber. zu Linnæa, 1841, 104).

A. ramosa. Hill, Veg. Syst. 11. 14, **t. 14, f. 2.**

Boykinia humilis. Raf. Rev. 1817; Aut. Bot. 9.

A. occidentalis. DC. Prodr. 3. 78, & syn. Chapman, 134 (var. *pygmæa*).

Var. **β.** Torr. & Gray, Fl. 1. 480.

A. purpurea. Lam. Dict. 1. 131; Ill. 1. 311.

A. ramosior. Michx. Fl. 1. 99. Persoon, 1. 146. Roem. & Schult. Syst. 3. 302, in part. Elliott, 1. 218. Spreng. l. c. DC. Prodr. 3. 78. Don, l. c.

A. latifolia. Linn. Spec. 119. See syn. in Willd. Spec. 1. 678; DC. Prodr. 3. 79; Seem. Bot. Herald, 284; Griseb. Fl. Brit. W. Ind. 270. — Don, Mill. 2. 709. St. Hilaire, l. c. 6. Hook. Comp. Bot. Mag. 1. 46. Torr. & Gray, Fl. 1. 480. Gray, Pl. Fendl. 42; Pl. Lindh. 188; Pac. R. Rep. 12. 43; Manual, 182. Parry, Pl. Minn. 612. Torrey, Pac. R. Rep. 4. 86 & 5. 361; Mex. Bound. 65; Bot. Wilkes, 205. A. H. Smith, Proc. Acad. Philad. 1867, 19. Watson, King's Rep. 5. 103. Brew. & Wats. Bot. Calif. 1. 214.

A. ramosior. Linn. Mant. 2. 332, not Spec. Willd. Spec. 1. 678. Pursh, 107. Roem. & Schult. Syst. 3. 302, in part. Torrey, Fl. U. S. 189; Ann. Lyc. N. Y. 2. 199. Beck, Bot. 125. Eat. & Wr. 122. Dietr. 1. 506.

A. humilis. Torr. & Gray, Fl. 1. 480, as to hab. Oregon.

A. stylosa. Fisch. & Meyer, Ind. Sem. Petrop. 7. 41 (Litt.-Ber. zu Linnæa, 1841, 104; Ann. Sci. Nat. 2. 16. 48). Walp. Rep. 2. 102.

A. Texana. Scheele, Linnæa, 21. 588. Walp. Ann. 2. 538.

A. lingulata. Grisebach, Cat. Pl. Cub. 106.

A. Wrightii. Gray, Pl. Wright. 2. 55. Torrey, Mex. Bound. 65.

CUPHÆA aspera. Chapman, 135.

C. viscosissima. Jacquin, Hort. Vindob. 2. 83, t. **177.** Roth, Beytr. 1. 124. Ait. Hort. Kew. 1. 129. Lam. Ill. 2. 523, t. **407.** Gaertn. Fruct. t. **44.** Moench, Meth. 664. Willd. Spec. 2. 870; Enum. 498. Michx. Fl. 1. 281. Poir. Dict. 6. 462. Pursh, 335. Nutt. Genera, 1. 304. Elliott, 1. 546. Barton, Fl. N. Am. 1. 63, t. **13.** Sweet, Brit. Fl. Gard. t. **60.** Torrey, Fl. U. S. 472; Fl. N. Y. 1. 230. Spreng. Syst. 2. 456. DC. Prodr. 3. 85. Don, Mill. 2. 714. Beck, Bot. 126. Spach, Hist. Veg. 4. 425. Darling. Fl. Cestr. 284. Torr. & Gray, Fl. 1. 483. Eat. & Wr. 215. Dietr. 3. 12. Griseb. Fl. Brit. W. Ind. 269. Chapman, 135. Gray, Manual, 184. Koehn, Ind. Sem. h. Berol. 1873, Appx. 2. 1.

Lythrum petiolatum. Linn. Spec. 446. Hill, Veg. Syst. 16, t. **18**, f. **2.** Poir. Dict. 6. 455. Persoon, 2. 8.

Lythrum Cuphæa. Linn. f. Suppl. 249.

Balsamona Pinto. Vandelli, Fasc. 15, t. **3.** Roemer, Script. 110, t. **4.**

? *Silene axillaris.* Leavenworth, Am. Journ. Sci. 1. 7. 62. Torr. & Gray, Fl. 1. 194 & 676. Eat. & Wr. 428. Walp. Rep. 1. 279.

C. Wrightii. Gray, Pl. Wright. 2. 56. Walp. Ann. 4. 689. Torrey, Mex. Bound. 65.

DIDIPLIS linearis. Raf. in Atlant. Journ. 1833; New Flora, 4. 9. Benth. & Hook. Gen. Pl. 1. 777.

Callitriche autumnalis ? Michx. Fl. 1. 2.

Peplis (?) *diandra.* Nutt. in DC. Prodr. 3. 77. Don, Mill. 2. 708.

Hypobrichia Nuttallii. M. A. Curtis in Torr. & Gray, Fl. 1. 479. Chapman, 133. Wood, Cl.-Book, 350. Young, Fl. Texas, 262.

Ammannia Nuttallii. Gray, Manual, 4 ed. Add. xcii.

Didiplis diandra. Wood, Bot. & Fl. 124.

LYTHRUM alatum. Pursh, 334. Sims, Bot. Mag. t. **1812.** Poir. Suppl. 5. 21. Nutt. Genera, 1. 303. Elliott, 1. 545. Beck, Am. Journ. Sci. 10. 112. Spreng. Syst. 2. 454. DC. Prodr. 3. 81. Hook. Fl. 1. 219; Comp. Bot. Mag. 1. 46. Don, Mill. 2. 711. Spach, Hist. Veg. 4. 420. Torr. & Gray, Fl. 1. 481; Pac. R. Rep. 2. 126. Dietr. 3. 10. Gray, Pl. Fendl. 43; Pl. Lindh. 188; Manual, 183; Hall's Pl. Texas, 9. Torrey, Emory's Rep. 140; Mex. Bound. 65. Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 191. Chapman, 134. Porter, Fl. Col. 46. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 328. Brew. & Wats. Bot. Calif. 1. 214.

Pythagorea alata. Raf. Journ. Phys. 1819, 96.

L. Virginicum. Kenn. Hort.

L. Kennedyanum. HBK. Nov. Gen. 6. 194; fide DC.

Var. **lanceolatum.** Torr. & Gray, Fl. 1. 481. Gray, Pl. Lindh. 188. Watson, Pl. Wheeler, 9.

? *L. virgatum.* Walter, 120. Poir. Dict. 6. 452, in part. Pursh, 334.

L. lanceolatum. Ell. 1. 544. DC. Prodr. 3. 82. Don, Mill. 2. 711. Spach, Hist. Veg. 4. 420. Dietr. 3. 10.

L. ——? *n. sp.* Nutt.; Torrey, Ann. Lyc. N. Y. 2. 199.

L. hyssopifolium. Curtis, Journ. Bost. Soc. Nat. Hist. 1. 121.

L. alatum, var. γ. Torr. & Gray, Fl. 1. 482. Gray, Pl. Lindh. 188.

Var. **linearifolium.** Gray, Pl. Lindh. 188; Pl. Wright. 1. 69. Walp. Ann. 2. 539. Dur. & Hilg. in Pac. R. Rep. 5. 7. Brew. & Wats. Bot. Calif. 1. 214.

L. lineare. Hook. & Arn. Bot. Beechey, 343.

L. Californicum. Torr. & Gray, Fl. 1. 482. Walp. Rep. 2. 104. Dietr. 3. 10. Benth. Pl. Hartw. 310. Boland. Cat. 12.

Var. **pumilum.** Gray, Pl. Lindh. 187; Pl. Wright. 1. 69. Walp. Ann. 2. 539.

Var. **ovalifolium**. Gray, Pl. Lindh. 187. Walp. Ann. 2. 539.
? *L. flagellare*. Shuttleworth, in herb.

L. breviflorum. Watson, Proc. Am. Acad. 12. 251.
L. alatum, var. *breviflorum*. Gray, Pl. Lindh. 187. Walp. Ann. 2. 539.

L. Hyssopifolia. Linn. Spec. 447. See syn. in DC. Prodr. 3. 81, &c.; Pritzel, Ind. Icon. Bot. 1. 671. — Nutt. Genera, 1. 303. Bigel. Fl. Bost. 2 ed. 188. Torrey, Fl. U. S. 472; Fl. N. Y. 1. 229. Beck, Bot. 126. Torr. & Gray, Fl. 1. 481. Gray, Manual, 183. Perhaps only introduced.

L. lineare. Linn. Spec. 447. Hill, Veg. Syst. 16, **t. 18, f. 3**. Willd. Spec. 2. 868. Michx. Fl. 1. 280. Poir. Dict. 6. 453. Persoon, 2. 8. Pursh, 334. Nutt. Genera 1. 303. Elliott, 1. 545. Spreng. Syst. 2. 454. DC. Prodr. 3. 81. Don, Mill. 2. 711. Curtis, Bot. N. Car. 1. 121. Torr. & Gray, Fl. 1. 482. Dietr. 3. 10. Chapman, 134. Gray, Manual, 183.
Pythagorea linearis. Raf. Journ. Phys. 1819, 96.

L. Salicaria, Linn. Hook. Fl. Bor.-Am. 1. 219. Torr. & Gray, Fl. 1. 482. Hook. f. Arct. Pl. 291. Gray, Manual, 183.
L. Salicaria, var. *pubescens*. Pursh, 334. Torrey, Fl. U. S. 471. DC. Prodr. 3. 83. Don, Mill. 2. 712. Beck, Bot. 126.
L. diffusum. Sweet, Hort. Brit. 150; Brit. Fl. Gard. **t. 149**. Maund, Bot. Gard. 10, **t. 470**. Spach, Hist. Veg. 4. 421.
L. Purshianum. Steudel, Nomencl. 2. 86.

NESÆA longipes. Gray, Pl. Wright. 1. 68 & 2. 56. Walp. Ann. 4. 688. Torrey, Mex. Bound. 65.

N. salicifolia. HBK. Nov. Gen. & Sp. 6. 192. Reichenb. Hort. Bot. 2. 26, **t. 166**. Gray, Pl. Wright. 1. 69. Torrey, Mex. Bound. 65.
Heimia salicifolia. Link, Enum. 2. 3. Link & Otto, Icon. Pl. 63, **t. 28**. DC. Prodr. 3. 89. Sweet, Brit. Fl. Gard. **t. 281**. Hook. Icon. **t. 554, B, C**. Benth. Pl. Hartw, 288. Seem. Bot. Herald, 284. Griseb. Fl. Brit. W. Ind. 271.

N. verticillata. HBK. l. c. 191. Spreng. Syst. 2. 455. Curtis, Bot. N. Car. 109. Chapman, 134. Gray, Manual, 183. Wright, Am. Naturalist, 7. 737.
Lythrum verticillatum. Linn. Spec. 446. Hill, Veg. Syst. 16, **t. 18, f. 1**. Willd. Spec. 2. 866. Michx. Fl. 1. 281. Poir. Dict. 6. 453. Persoon, 2. 8. Ait. f. Hort. Kew. 3. 150. Pursh, 334. Bigel. Fl. Bost. 188. Nutt. Genera, 1. 303. Torrey, Fl. U. S. 471. Bertoloni, Bot. Misc. 3. 13, **t. 4**.
Anonymos aquaticum. Walter, 137.
Decodon aquaticus. Gmelin, Syst. Veg. 677.
Decodon verticillatum. Elliott, 1. 544. DC. Prodr. 3. 98. Hook. Fl. Bor.-Am. 1. 219. Don, Mill. 2. 721. Beck, Bot. 126. Torr. & Gray, Fl. 1. 483. Dietr. 3. 15. Torrey, Fl. N. Y. 1. 229, **t. 28**. Gray, Manual, 1 ed. 133.

ONAGRACEÆ.

BOISDUVALIA densiflora. Watson, Bot. Calif. 1. 233.
Œnothera densiflora. Lindl. Bot. Reg. 19, **t. 1593** (Litt.-Ber. zu Linnæa, 1835, 15). Maund, Bot. Gard. 12, **t. 540**. Torr. & Gray, Fl. 1. 505. Hook. in Lond. Journ. Bot. 6. 224. Torrey, Pac. R. Rep. 4. 86; Bot. Wilkes, 297. Newberry, Pac. R. Rep. 6. 74. Boland. Cat. 12. Anderson, Cat. Pl. Nev. 120. Gray, Proc. Am. Acad. 8. 384, excl. vars. Watson, Rev. Œnoth. in Proc. Am. Acad. 8. 600.

B. Douglasii. Spach, Monogr. Onagr. 80, **t. 31, f. 2**; Hist. Veg. 4. 385, **t. 85, f. 2.** Walp. Rep. 2. 89.

B. glabella. Walp. Rep. 2. 89. Brew. & Wats. Bot. Calif. 1. 233.

Œnothera glabella. Nutt.; Torr. & Gray, Fl. 1. 505. Watson, King's Rep. 5. 108; Rev. Œnoth. 601. Gray, Proc. Am. Acad. 8. 384.

B. Torreyi. Watson, Bot. Calif. 233.

Gayophytum strictum. Gray, Proc. Am. Acad. 7. 340. Boland. Cat. 12.

Œnothera densiflora, var. *tenella.* Gray, Proc. Am. Acad. 8. 384.

CIRCÆA alpina. Linn. Spec. 9. See syn. in Willd. Spec. 1. 53; Roem. & Schult. Syst. 1. 271; Ledeb. Fl. Ross. 2. 114; Pritzel, Ind. Icon. Bot. 1. 270 & 2. 80. — Michx. Fl. 1. 17. Pursh, 21. Nutt. Genera, 1. 18. Elliott, 1. 7. Torrey, Fl. U. S. 30; Fl. N. Y. 1. 240. Bigel. Fl. Bost. 2 ed. 11. DC. Prodr. 3. 63. Hook. Fl. Bor.-Am. 1. 215. Don, Mill. 2. 699. Beck, Bot. 121. Presl, Rel. Haenk. 2. 37. Torr. & Gray, Fl. 1. 527, excl. hab. Oregon. Eat. & Wr. 198. Chapman, 143. Hook. f. Arct. Pl. 291. Rothr. Fl. Alask. 446. Gray, Manual, 176. Ascherson & Magnus, Bot. Zeit. 28. 748.

C. Lutetiana. Linn. Spec. 8. See syn. in Willd. Spec. 1. 53; Ledeb. Fl. Ross. 2. 113; Pritzel, l. c. 270. — Persoon, 1. 10. Bigel. Fl. Bost. 11. Torr. & Gray, Fl. 1. 527. Eat. & Wr. 198. Torrey, Fl. N. Y. 1. 239; Nicol. Rep. 150. Engelm. Pl. Upp. Miss. 192? Gray, Pac. R. Rep. 12. 43?; Manual, 176. Chapman, 143. Aschers. & Mag. l. c. 777.

C. Lutetiana, var. *Canadensis.* Linn. l. c. Willd. l. c. Michx. Fl. 1. 17. Vahl, Enum. 1. 301. Pursh, 21. Elliott, 1. 7. Torrey, Fl. U. S. 29. DC. Prodr. 3. 63. Hook. Fl. Bor.-Am. 1. 215. Don, Mill. 2. 699. Beck, Bot. 120.

C. Canadensis. Hill, Veg. Syst. 10, **t. 21, f. 2.** Muhl. Cat. 2. Beck, Am. Journ. Sci. 10. 261.

C. Pacifica. Aschers. & Mag. in Bot. Zeit. 29. 392. Gray, Proc. Am. Acad. 8. 384. Brew. & Wats. Bot. Calif. 1. 234.

C. alpina. Hook. in Lond. Journ. Bot. 6. 225. Cooper, Pac. R. Rep. 12. 61. Pl. Bourgeau, 256. Anderson, Cat. Pl. Nev. 120. Porter, Fl. Col. 44.

C. Lutetiana. Boland. Cat. 12. Torrey, Bot. Wilkes, 300.

C. alpina, var. *intermedia.* Watson, King's Rep. 5. 113.

CLARKIA elegans. Lindl. Bot. Reg. 19, **t. 1575** (Litt.-Ber. zu Linnæa, 1835, 12), and 23, under t. 1981. Don, in Sweet, Brit. Fl. Gard. 2 ser. **t. 209.** Hook. & Arn. Bot. Beechey, 340. Hook. Bot. Mag. **t. 3592.** Torr. & Gray, Fl. 1. 515. Walp. Rep. 2. 89. Dietr. 2. 1298. Benth. Pl. Hartw. 310. Torrey, Pac. R. Rep. 4. 87. Dur. & Hilgard, same, 5. 8. Newberry, same, 6. 74. Gray, Proc. Bost. Soc. Nat. Hist. 7. 146. Wood, Cl.-Book, 354; Bot. & Fl. 127. Brew. & Wats. Bot. Calif. 1. 232.

Phœostoma Douglasii. Spach, Monogr. Onogr. 74; Hist. Veg. 4. 393.

C. unguiculata. Lindl. Bot. Reg. 23, under t. 1981. Torr. & Gray, Fl. 1. 516. Walp. Rep. 2. 89. Dietr. 2. 1298.

Phœostoma elegans & *unguiculata.* Lilja, Linnæa, 15. 261.

? *Gauropsis lancifolia.* Presl, Epimel. Bot. 219.

C. pulchella. Pursh, 260, **t. 11.** Poir. Suppl. 5. 621; Lam. Ill. 3. 602, **t. 942.** Nutt. Genera, 1. 249. Lindl. Bot. Reg. 13, **t. 1100**, and 23, under t. 1981. DC. Prodr. 3. 52. Maund, Bot. Gard. 5, **t. 199.** Hook. Fl. Bor.-Am. 1. 214; Bot. Mag. **t. 2918**; Lond. Journ. Bot. 6. 225. Reichenb. Hort. Bot. 3. 5, **t. 211.** Nees, Gart. Bonn. **t. 69.** Don, Mill. 2. 691. Sweet, Brit. Fl. Gard. 2 ser. **t. 157.** Spach, Hist. Veg. 4. 395. Hook. & Arn. Bot. Beechey, 340. Torr. & Gray, Fl. 1. 515.

Eat. & Wr. 198. Lilja, Linnæa, 15. 260. Walp. Rep. 2. 89. Dietr. 2. 1298. Lemaire, Ill. Hort. 5, **t. 159**. Wood, Cl.-Book, 354; Bot. & Fl. 126. Torrey, Bot. Wilkes, 299. Brew. & Wats. Bot. Calif. 1. 231.

C. rhomboidea. Dougl.; Hook. Fl. Bor.-Am. 1. 214; Lond. Journ. Bot. 6. 225. Don, Mill. 2. 691. Lindl. Bot. Reg. 23, **t. 1981**. Hook. & Arn. Bot. Beechey, 340. Torr. & Gray, Fl. 1. 516. Walp. Rep. 2. 89. Dietr. 2. 1298. Durand, Pl. Pratten, 88. Wood, Bot. & Fl. 127. Watson, King's Rep. 5. 104. Coulter, Hayd. Rep. 1872, 767. Torrey, Bot. Wilkes, 299. Brew. & Wats. Bot. Calif. 232.

C. gauroides. Don in Sweet, Brit. Fl. Gard. 2 ser. **t. 379**.

Opsianthes gauroides. Lilja, Linnæa, 15. 261.

C. Xantiana. Gray, Proc. Bost. Soc. Nat. Hist. 7. 145. Brew. & Wats. l. c.

EPILOBIUM affine. Bongard, Veg. Sitch. 135 (Presl, Repert. Bot. 1. 314). Torr. & Gray, Fl. 1. 489. Dietr. 2. 1291. Walp. Rep. 2. 91. Ledeb. Fl. Ross. 2. 110. Rothr. Fl. Alask. 446.

E. alpinum. Linn. Spec. 348. See syn. in Willd. Spec. 2. 318; Seringe, DC. Prodr. 3. 41; Ledebour, Fl. Ross. 2. 111; Babington, Ann. & Mag. Nat. Hist. 2. 17. 311; Pritzel, Ind. Icon. Bot. 1. 402. — Pursh, 260. Spreng. Syst. 2. 233. Hook. Fl. Bor.-Am. 1. 205. Meyer, Pl. Lab. 72. Don, Mill. 2. 680. Beck, Bot. 117. Torr. & Gray, Fl. 1. 488. Eat. & Wr. 233. Torrey, Fl. N. Y. 1. 232. Tuckerman, Am. Journ. Sci. 2. 6. 22. Grisebach, Bot. Zeit. 10. 853. Lange, Pl. Groenl. 133. Hook. f. in Journ. Linn. Soc. 1. 121; Arct. Pl. 291 & 327. Pl. Bourgeau, 256. Gray, Am. Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 61; Manual, 177; Proc. Am. Acad. 8. 384. Rothr. Fl. Alask. 446. Watson, King's Rep. 5. 103. Porter, Fl. Col. 42. Barbey in Brew. & Wats. Bot. Calif. 1. 219.

Var. **nutans**. Lehm. in Hook. Fl. Bor.-Am. 1. 205, excl. syn. ? Torr. & Gray, Fl. 1. 488. Wood, Cl.-Book, 351.

E. Hornemanni. Bongard, Veg. Sitch. 136; not Reichenb. Icon. Crit. 2. 73, **t. 180**. Ledeb. Fl. Ross. 2. 112.

E. anagallidifolium. Lam. Dict. 2. 376; Ill. 2. 421, **t. 278, f. 3**. Babington, l. c. 312. — Credited to Greenland by Grisebach, Bot. Zeit. 10. 853.

E. brevistylum. Barbey in Brew. & Wats. Bot. Calif. 1. 220.

E. coloratum. Muhl.; Willd. Enum. 1. 411. Spreng. Mant. Fl. Hal. 39; Syst. 2. 233. Poir. Suppl. 2. 57. Pursh, 260. Bigel. Fl. Bost. 147. Nutt. Genera, 1. 250. Link, Enum. 1. 379. Torrey, Fl. U. S. 392; Fl. N. Y. 1. 232; Nicol. Rep. 150; Frem. Rep. 89; Sitgr. Rep. 159; Pac. R. Rep. 4. 86; Mex. Bound. 65; Bot. Wilkes, 296. Seringe, DC. Prodr. 3. 42. Hook. Fl. Bor.-Am. 1. 206. Don, Mill. 2. 681. Beck, Bot. 116. Hook. Comp. Bot. Mag. 1. 25; Lond. Journ. Bot. 6. 221. Fisch. & Mey. in Ind. Sem. Petrop. 3. 33 (Litt.-Ber. zu Linnæa, 1838, 93). Darling. Fl. Cestr. 239. Torr. & Gray, Fl. 1. 489. Eat. & Wr. 233. Dietr. 2. 1292. Gray, Pl. Fendl. 43; Pl. Wright. 1. 69 & 2. 56; Proc. Bost. Soc. Nat. Hist. 7. 146; Manual, 178. Durand & Hilgard, Pac. R. Rep. 5. 7. Newberry, same, 6. 74. Cooper, same, 12. 60. Chapman, 140. Porter, Hayd. Rep. 1870, 476. Barbey in Brew. & Wats. Bot. Calif. 1. 219; Monogr. Epil. ined. **t. 9**.

E. tetragonum. Pursh, 259. Elliott, 1. 445. Torrey, Pac. R. Rep. 4. 86. Boland. Cat. 12. Watson, King's Rep. 5. 103, in part.

? *E. divaricatum*. Raf. Prec. Découv. 41; Desv. Journ. Bot. 1814, 271. Poir. Suppl. 5. 668. Seringe, l. c. Don, Mill. 2. 682. Eat. & Wr. 234. Dietr. 2. 1292.

E. Franciscanum. Barbey, Brew. & Wats. Bot. Calif. 1. 220.

E —— ? Torrey, Pac. R. Rep. 4. 86, under *E. tetragonum*.

E. glaberrimum. Barbey, l. c. 220; Monogr. t. **5.**

Var. **latifolium.** Barbey, ll. cc.

E. HIRSUTUM, Linn. Spreng. Syst. 2. 232. Gray, Manual, 177.

E. latifolium. Linn. Spec. 347. See syn. in Willd. Spec. 2. 314; Ledeb. Fl. Ross. 2. 106; Trautv. & Mey. Fl. Ochot. 38. — Oeder, Fl. Dan. 4, t. **565.** Lam. Dict. 2. 374. Pursh, 259. Richard. Frankl. Journ. 8. Hook. in Trans. Linn. Soc. 14. 372; Fl. Bor.-Am. 1. 205. Spreng. Syst. 2. 232. Cham. & Schlecht. in Linnæa, 2. 552. DC. Prodr. 3. 40. Meyer, Pl. Lab. 71. Bongard, Veg. Sitch. 134. Don, Mill. 2. 680 (& var. *venustum*, Dougl.). Presl, Rel. Haenk. 2. 29. Hook. & Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 487. Eat. & Wr. 233. Dietr. 2. 1290. Seller, Ann. & Mag. Nat. Hist. 16. 171. Seem. Bot. Herald, 30, 52 & 55. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 191 (Kane's Exped. 2. 454). Lange, Pl. Groenl. 134. Hook. f. in Journ. Linn. Soc. 1. 116, 121 & 124, & 5. 83; Arct. Pl. 291. Dickie, Journ. Linn. Soc. 3. 111. Gray, Am. Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 61. Pl. Bourgeau, 256. Rothr. Fl. Alask. 446; Pl. Wheeler, 39. Porter, Fl. Col. 43. Barbey, Brew. & Wats. Bot. Calif. 1. 219.

E. luteum. Pursh, 259. Poir. Suppl. 5. 668. Spreng. Syst. 2. 233. Cham. & Schlecht. in Linnæa, 2. 553. Seringe, DC. Prodr. 3. 44. Hook. Fl. Bor.-Am. 1. 208. Bongard, Veg. Sitch. 135. Don, Mill. 6. 83. Torr. & Gray, Fl. 1. 487. Eat. & Wr. 234. Dietr. 2. 1292. Walp. Rep. 2. 90. Ledeb. Fl. Ross. 2. 107. Cooper, Pac. R. Rep. 12. 60. Rothr. Fl. Alask. 445. Barbey, l. c. 219.

E. minutum. Lindley in Hook. Fl. Bor.-Am. 1. 207. Don, Mill. 2. 681. Torr. & Gray, Fl. 1. 490. Eat. & Wr. 234. Dietr. 2. 1292. Walp. Rep. 2. 91. Hook. in Lond. Journ. Bot. 6. 221. Engelm. Pl. Upp. Miss. 491. Torrey, Pac. R. Rep. 4. 86; Bot. Wilkes, 296. Cooper, Pac. R. Rep. 12. 60. Boland. Cat. 12. Gray, Proc. Am. Acad. 8. 384. Watson, same, 11. 115. Barbey, l. c.; Monogr. t. **7.**

Crossostigma Lindleyi. Spach, Rev. Onagr. 84.

Var. **foliosum.** Torr. & Gray, Fl. 1. 490. Porter, Fl. Col. 221.

E. molle. Torrey, Fl. U. S. 393, not Lam.; Fl. N. Y. 1. 233. Torr. & Gray, Fl. 1. 490. Eat. & Wr. 233. Walp. Rep. 2. 91. Gray, Manual, 178.

E. strictum. Muhl. Cat. 39. Spreng. Syst. 2. 233. DC. Prodr. 3. 41. Don, Mill. 2. 681. Beck, Bot. 117.

E. obcordatum. Gray, Proc. Am. Acad. 6. 532. Watson, King's Rep. 5. 104. Barbey, Brew. & Wats. Bot. Calif. 1. 218; Monogr. Epil. ined. t. **3.**

E. opacum. Lehmann in Hook. Fl. Bor.-Am. 1. 205; Pug. Nov. Pl. 2. 14. Don, Mill. 2. 680. Torr. & Gray, Fl. 1. 487. Eat. & Wr. 233. Dietr. 2. 1290. Walp. Rep. 2. 90. Perhaps hybrid of *E. latifolium* & *E. strictum*, fide Barbey, l. c.

E. origanifolium. Lam. Dict. 2. 376. See syn. in Ledeb. Fl. Ross. 2. 111; Koch, Fl. Germ. 3 ed. 209; Griseb. in Bot. Zeit. 10. 853, and Babington, Ann. & Mag. Nat. Hist. 2. 17. 313, as *E. alsinefolium.* — Persoon, 1. 410. Reichenb. Iconogr. Bot. 2. 74, t. **180, f. 314.** Cham. & Schlecht. in Linnæa, 2. 553. DC. Prodr. 3. 41. Hook. Fl. Bor.-Am. 1. 206. Don, Mill. 1. 680. Eat. & Wr. 233. Lange, Pl. Groenl. 133. Pl. Bourgeau, 256. Anderson, Cat. Pl. Nev. 120. Barbey, l. c. 219.

E. alsinefolium. Villars, Hist. Pl. Dauph. 2. 511. Liebm. in Fl. Dan. 15, t. **2587.** Gray, Am. Journ. Sci. 2. 33. 405.

E. alpestre. Schrank, Pfl. Lab. 15. Meyer, Pl. Lab. 73.

E. alpinum. Bigel. Fl. Bost. 2 ed. 147.

E. alpinum, var. *majus.* Wahl. Fl. Suec. 1. 234. Torr. & Gray, Fl. 1. 488. Newberry, Pac. R. Rep. 6. 74. Gray, Manual, 177.

E. palustre. Linn. Spec. 348. See syn. in Willd. Spec. 2. 317; Ledeb. Fl. Ross. 2. 109; Trautv. & Meyer, Fl. Ochot. 38; Griseb. in Bot. Zeit. 10. 852. — Pursh, 260. Spreng. Syst. 2. 233. Hook. Fl. Bor.-Am. 1. 207. Beck, Bot. 116. Torr. & Gray, Fl. 1. 490. Eat. & Wr. 233. Torrey, Fl. N. Y. 1. 233; Pac. R. Rep. 4. 86. Lange, Pl. Groenl. 133. Hook. f. Arct. Pl. 291 & 328. Gray, Proc. Acad. Philad. 1863, 61. Pl. Bourgeau, 256. Rothr. Fl. Alask. 446. Porter, Fl. Col. 43.

Var. **lineare.** Gray, Manual (2 ed. 130), 177. Chapman, 140. Kept distinct by Grisebach, l. c.; Fries, Summ. Veg. Scand. 176.

? *E. angustissimum.* Willd. Spec. 2. 313, as to habitat Greenland.

E. oliganthum. Michx. Fl. 1. 223. Poir. Suppl. 2. 570. Seringe, DC. Prodr. 3. 43. Hook. Fl. Bor.-Am. 1. 208. Don, Mill. 2. 681. Dietr. 2. 1292.

? *E. ciliatum.* Raf. Desv. Journ. Bot. 1. 229. Poir. Suppl. 5. 668.

E. rosmarinifolium. Pursh, 259. Poir. Suppl. 5. 668. Torrey, Fl. U. S. 392.

E. densum & *leptophyllum.* Raf. Prec. Découv. 41 & 42; Desv. Journ. Bot. 1814, 271. Poir. Suppl. 5. 668. DC. Prodr. 3. 42 & 43. Don, Mill. 2. 681 & 682. Eat. & Wr. 234. Dietr. 2. 1292.

E. tenellum. Raf. ll. cc., & same citations. Hook. Fl. Bor.-Am. 1. 207.

E. lineare. Muhl. Cat. 39. Barton, Compend. Fl. Philad. 1. 183. Bigel. Fl. Bost. 2 ed. 147. Eat. & Wr. 233. Griseb. in Bot. Zeit. 10. 852. Lange, Pl. Groenl. 133.

E. squamatum. Nutt. Genera, 1. 250. Spreng. Syst. 2. 234. Seringe, DC. Prodr. 3. 43. Don, Mill. 2. 682. Beck, Bot. 116.

E. palustre, var. *albescens.* Richard. Frankl. Journ. 12. Cham. & Schlecht. in Linnæa, 2. 554. Schlecht. Fl. Lab. in Linnæa, 10. 96.

? *E. pubescens.* Presl, Rel. Haenk. 2. 29; fide Torr. & Gray, Fl. 1. 491.

E. palustre, var. *albiflorum.* Lehm. in Hook. Fl. Bor.-Am. 1. 207. Don, Mill. 2. 682. Torr. & Gray, Fl. 1. 490. Torrey, Nicol. Rep. 150. Hook. in Lond. Journ. Bot. 6. 221. Wood, Cl.-Book, 351. Rothr. Pl. Wheeler, 39.

E. palustre. Gray, Manual, 1 ed. 135.

E. paniculatum. Nutt.; Torr. & Gray, Fl. 1. 490. Walp. Rep. 2. 92. Hook. in Lond. Journ. Bot. 6. 221. Newberry, Pac. R. Rep. 6. 74. Cooper, same, 12. 52 & 60. Gray, Am. Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 61; Proc. Am. Acad. 8. 384. Anderson, Cat. Pl. Nev. 120. Boland. Cat. 12. Porter, Hayd. Rep. 1870, 476; 1871, 483; Fl. Col. 43. Watson, King's Rep. 5. 103; Pl. Wheeler, 9. Coulter, Hayd. Rep. 1872, 767. Torrey, Bot. Wilkes, 297. Rothr. Pl. Wheeler, 39. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 327. Barbey, Brew. & Wats. Bot. Calif. 1. 220; Monogr. Epilob. ined. **t. 8.**

E. roseum. Schreber, Fl. Lips. 147. See syn. in Seringe, DC. Prodr. 3. 41; Ledeb. Fl. Ross. 2. 110; Pritzel, Ind. Icon. Bot. 1. 403. — Bongard, Veg. Sitch. 135. Torr. & Gray, Fl. 1. 489. Rothr. Fl. Alask. 446. Grisebach, Bot. Zeit. 10. 854.

E. spicatum. Lam. Fl. France, 1077; Dict. 2. 373; Ill. 2. 412, **t. 278.** See syn. in Gren. & Godr. Fl. France, 1. 583; and under *E. angustifolium* in Willd. Spec. 2. 313; Ledeb. Fl. Ross. 2. 105; Trautv. & Meyer, Fl. Ochot. 37; Pritzel, Ind. Icon. Bot. 1. 402. — Persoon, 1. 409. Nutt. Genera, 1. 250. Torrey, Fl. U. S. 391; Frem. Rep. 89. DC. Prodr. 3. 40. Don, Mill. 2. 680. Beck, Bot. 116. Eat. & Wr. 233. Barbey, Brew. & Wats. Bot. Calif. 1. 218.

E. angustifolium. Linn. Spec. 347, var. β. Michx. Fl. 1. 223. Pursh, 259. Bigel. Fl. Bost. 146. Schrank, Pfl. Lab. 15. Cham. & Schlecht. in Linnæa, 2. 552. Hook. Fl. Bor.-Am. 1. 205; Comp. Bot. Mag. 1. 25; Lond. Journ. Bot. 6. 220. Bongard, Veg. Sitch. 134. Meyer, Pl. Lab. 71. Schlecht. in Linnæa, 10. 96. Hook.

& Arn. Bot. Beechey, 123. Torr. & Gray, Fl. 1. 487; Pac. R. Rep. 2. 126. Dietr. 2. 1290. Torrey, Fl. N. Y. 1. 231; Nicol. Rep. 150; Bot. Wilkes, 296. Seller, Ann. & Mag. Nat. Hist. 16. 171. Gray, Pl. Fendl. 43; Proc. Acad. Philad. 1863, 61; Manual, 177; Proc. Am. Acad. 8. 383. Seem. Bot. Herald, 30 & 52. Engelm. Pl. Upp. Miss. 191. Tuckerman, Josselyn's Rarities, 88. Durand, Pl. Kane. in Journ. Acad. Philad. 1856, 101 (Kane's Exped. 2. 454). Newberry, Pac. R. Rep. 6. 74. Cooper, same, 12. 60. Chapman, 130. Hook. f. Arct. Pl. 291. Pl. Bourgeau, 256. Rothr. Fl. Alask. 446; Pl. Wheeler, 39. Boland. Cat. 12. Anderson, Cat. Pl. Nev. 120. Porter, Hayd. Rep. 1870, 476; 1871, 483; Fl. Col. 43. Watson, King's Rep. 5. 104; Pl. Wheeler, 9. Coulter, Hayd. Rep. 1872, 766.

? *E. pauciflorum.* Schrank, Pfl. Lab. 15. Meyer, Fl. Lab. 72. Schlecht. in Linnæa, 10. 96.

Chamænerium angustifolium. Spach, Hist. Veg. 4. 396. Lange, Pl. Groenl. 134.

E. suffruticosum. Nutt.; Torr. & Gray, Fl. 1. 488. Walp. Rep. 2. 90. Hook. in Lond. Journ. Bot. 6. 220. Coulter, Hayd. Rep. 1872, 767.

E. tetragonum. Linn. Spec. 494. See syn. in Ledeb. Fl. Ross. 2. 110; Grisebach, Bot. Zeit. 10. 854; Pritzel, Ind. Icon. Bot. 1. 403. — Michx. Fl. 1. 223. Richard. Frankl. Journ. 8. Spreng. Syst. 2. 233. Hook. Fl. Bor.-Am. 1. 206; Lond. Journ. Bot. 6. 220. Don, Mill. 2. 682. Beck, Bot. 117. Hook. & Arn. Bot. Beechey, 141. Torr. & Gray, Fl. 1. 489. Eat. & Wr. 234. Walp. Rep. 2. 91. Hook. f. in Fl. Antarct. 2. 270; Arct. Pl. 291. Cooper, Pac. R. Rep. 12. 60. Gray, Am. Journ. Sci. 2. 33. 405; Proc. Am. Acad. 8. 383. Wood, Cl.-Book, 351. Pl. Bourgeau, 256. Rothr. Fl. Alask. 446; Pl. Wheeler, 39. Watson, King's Rep. 5. 103, in part; Pl. Wheeler, 9. Porter, Hayd. Rep. 1871, 483; Fl. Col. 43. Coulter, Hayd. Rep. 1872, 767.

Var. **glandulosum.** Torr. & Gray, Fl. 1. 488. Torrey, Bot. Wilkes, 296.

E. glandulosum. Lehmann, Hook. Fl. Bor.-Am. 1. 206; Pug. Pl. Nov. 2. 14. Don, Mill. 2. 680. Eat. & Wr. 234. Dietr. 2. 1292.

E. Watsoni. Barbey, Brew. & Wats. Bot. Calif. 1. 219; Monogr. Epil. ined. **t. 6.**

E. alpestre, alpinum & *alsinefolium;* origanifolium.
angustifolium; spicatum.
angustissimum, ciliatum & *densum;* palustre.
divaricatum; coloratum.
glandulosum; tetragonum.
Hornemanni; alpinum.
E. leptophyllum, lineare & *oliganthum;* palustre.
pauciflorum; spicatum.
pubescens, rosmarinifolium & *squamatum;* palustre.
strictum; molle.
tenellum; palustre.
tetragonum; coloratum.
———?; Franciscanum.

EUCHARIDIUM Breweri. Gray, Proc. Am. Acad. 6. 532. Brew. & Wats. Bot. Calif. 1. 232.

E. concinnum. Fisch. & Meyer, Ind. Sem. Petrop. 2. 11 (Hook. Comp. Bot. Mag. 2. 7; Ann. Sci. Nat. 2. 5. 184; Litt.-Ber. zu Linnæa, 1837, 105, & 7. 40 (Ann. Sci. Nat. 2. 16. 53; Litt.-Ber. 1841, 112). Lindl. Bot. Reg. 23, **t. 1962.** Hook. Bot. Mag. **t. 3589.** Hook. & Arn. Bot. Beechey, 340. Torr. & Gray, Fl. 1. 516. Lilja, Linnæa, 15. 260. Walp. Rep. 2. 90. Meyer, Sert. Petrop. **t. 12.** Torrey, Pac. R. Rep. 4. 87. Boland. Cat. 12. Brew. & Wats. Bot. Calif. 1. 232.

E. grandiflorum. Fisch. & Meyer, Ind. Sem. Petrop. 7. 40 (& ll. cc.). Walp. Rep. 2. 90. Meyer, Sert. Petrop. **t. 13.** Rev. Hort. 6. 298, **f. 109.**

EULOBUS Californicus. Nutt.; Torr. & Gray, Fl. 1. 515. Torrey, Mex. Bound. 66. Brew. & Wats. Bot. Calif. 1. 221.

GAURA angustifolia. Michx. Fl. 1. 226. Persoon, 1. 409. Poir. Suppl. 2. 711. Pursh, 260. Elliott, 1. 445. James, Cat. 180. Seringe, DC. Prodr. 3. 44. Don, Mill. 2. 683. Hook. Comp. Bot. Mag. 1. 25. Spach, Monogr. Onagr. 58; Hist. Veg. 4. 382. Torr. & Gray, Fl. 1. 517. Eat. & Wr. 251. Dietr. 2. 1296. Chapman, 138. Wood, Cl.-Book, 354. Rothr. Syn. Gaurin. in Proc. Am. Acad. 6. 352.

G. biennis. Walter, 128.

G. fruticosa. Jacq. Icon. Pl. Rar. 3, **t. 457**; Collect. Bot. 1. 142. Willd. Spec. 2. 312. Poir. Suppl. 2. 711; Lam. Ill. 2. 423, **t. 281, f. 2.**

G. undulata. Desf. Cat. Par. 196.

G. biennis. Linn. Spec. 347. Hill, Veg. Syst. 11, **t. 11, f. 1.** Lam. Dict. 2. 614; Ill. 2. 422, **t. 281, f. 1.** Moench, Meth. 686. Ait. Hort. Kew. 2. 4. Curtis, Bot. Mag. **t. 389.** Schkuhr, Handb. 1. 324, **t. 105.** Gaertn. Fruct. **t. 127.** Willd. Spec. 2. 311. Michx. Fl. 1. 226. Barton, Bot. Appx. 26, **t. 16.** Persoon, 1. 409. Pursh, 260. Elliott, 1. 446. Torrey, Fl. U. S. 391; Fl. N. Y. 1. 236. Maund, Bot. Gard. 1, **t. 75.** Spreng. Syst. 2. 234. Seringe, DC. Prodr. 3. 44. Lehmann, Hook. Fl. 1. 209. Don, Mill. 2. 683. Beck, Bot. 117. Hook. Comp. Bot. Mag. 1. 25. Spach, Hist. Veg. 4. 381. Torr. & Gray, Fl. 1. 517, excl. var. Eat. & Wr. 251. Dietr. 2. 1296. Gray, Pl. Fendl. 47; Manual, 177. Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 192. Chapman, 138. Rothr. Syn. 351. Coulter, Hayd. Rep. 1872, 767.

? *Pleurandra alba.* Raf. Fl. Lud. 95.

Pleurostemon album. Raf. Adn. 1820. Seringe, DC. Prodr. 3. 64. Don, Mill. 2. 699.

G. coccinea. Nutt. in Fraser's Cat. 1813; Genera, 1. 249. Pursh, 733. Poir. Suppl. 5. 688. Bradbury, Cat. 336. James, Cat. 180; Long's Exped. 2. 333. Spreng. Syst. 2. 234. Torrey, Ann. Lyc. N. Y. 2. 200; Nicol. Rep. 150; Frem. Rep. 89 & 315; Emory's Rep. 140 & 408; Marcy's Rep. 285; Sitgr. Rep. 159; Pac. R. Rep. 4. 87; Mex. Bound. 66. Seringe, DC. Prodr. 3. 45. Lehm. in Hook. Fl. Bor.-Am. 1. 208. Don, Mill. 2. 683. Spach, Hist. Veg. 4. 382. Torr. & Gray, Fl. 1. 518; Pac. R. Rep. 2. 126 & 164. Eat. & Wr. 251. Dietr. 2. 1297. Nees, Pl. Neuwied, 9. Hook. in Lond. Journ. Bot. 6. 225. Engelm. in Wisliz. Rep. 3; Pl. Upp. Miss. 192. Gray, Pl. Wright. 1. 73 & 2. 59; Pac. R. Rep. 12. 43; Am. Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 61. Pl. Bourgeau, 256. Rothr. Syn. 352; Pl. Wheeler, 40. Porter, Hayd. Rep. 1870, 476; 1871, 483; Fl. Col. 44. Coulter, Hayd. Rep. 1872, 767. Watson, Pl. Wheeler, 9.

Schizocarya (?) *crispa.* Spach, Monogr. Onagr. 58.

Var. **integerrima.** Torrey, Ann. Lyc. N. Y. 2. 200. Torr. & Gray, Fl. 1. 518. Nees, Pl. Neuwied, 10. Walp. Rep. 2. 97.

G. marginata. Lehmann, Hook. Fl. Bor.-Am. 1. 208; Pug. Pl. Nov. 2. 16. Don, Mill. 2. 683. Eat. & Wr. 251. Dietr. 2. 1297.

Var. **parvifolia.** Torr. & Gray, Fl. 1. 518. Walp. Rep. 2. 97. Gray, Pl. Wright. 1. 73.

G. epilobioides. HBK. Nov. Gen. & Spec. 6. 93. DC. Prodr. 3. 44. Don, Mill. 2. 683. Dietr. 2. 1296. Gray, Pl. Fendl. 46.

G. parvifolia. Torrey, l. c. Eat. & Wr. 251.

Var. **glabra.** Torr. & Gray, Fl. 1. 518. Walp. l. c.

G. glabra. Lehmann, Hook. Fl. Bor.-Am. 1. 209; Pug. Pl. Nov. 2. 16. Don, Mill. 2. 684. Eat. & Wr. 251. Dietr. 2. 1297.

G. Drummondii. Torr. & Gray, Fl. 1. 519. Dietr. 2. 1297. Walp. Rep. 2. 97. Engelm. & Gray, Pl. Lindh. 36. Gray, Pl. Lindh. 190; Pl. Wright. 1. 73; Hall's Pl. Texas, 9. Torrey, Mex. Bound. 66. Rothr. Syn. Gaurin. 353. Young, Fl. Texas, 265.

Schizocarya Drummondii. Spach, Monogr. Onogr. 62.

G. Rœmeriana. Scheele, Linnæa, 21. 570. Walp. Ann. 2. 526.

G. filipes. Spach, Monogr. Onagr. 59. Torr. & Gray, Fl. 1. 517. Dietr. 2. 1297. Walp. Rep. 2. 96. Scheele, Roem. Texas, 431. Chapman, 138. Rothr. Syn. Gaurin. 353. Gray, Manual, 177.

G. Michauxii. Spach, l. c. 59. Dietr. 2. 1297.

G. coccinea. Bertoloni, Bot. Misc. 11. 17.

Var. **major.** Torr. & Gray, Fl. 1. 517, excl. syn.

G. fruticulosa. Benth. Bot. Sulph. 15. Walp. Rep. 5. 670. (Lower California.)

G. Lindheimeri. Engelm. & Gray, Pl. Lindh. 9. Walp. Ann. 2. 535. Lindl. in Journ. Hort. Soc. 7. 270. Vilmorin, Rev. Hort. 3. 5. 41, **t. 5**; 6. 262, **f. 101.** Paxton, Fl. Garden, 3. 127, **f. 292.** Rothr. Syn. Gaurin. 351. Wood, Bot. & Fl. 126. Gray, Hall's Pl. Texas, 9.

? *G. hirsuta.* Scheele, Linnæa, 21. 580; fide Gray, Pl. Lindh. 191. Walp. l. c.

G. longiflora. Spach, Monogr. Onagr. 59. Gray, Pl. Lindh. 36. Walp. Ann. 2. 536. Rothr. Syn. Gaurin. 351.

G. biennis, var. *Pitcheri.* Torr. & Gray, Fl. 1. 513. Torrey, Pac. R. Rep. 4. 87.

G. filipes, var. *major.* Torr. & Gray, Fl. 1. 517, in part.

G. macrocarpa. Rothrock, Syn. Gaurin. 353.

G. villosa. Gray, Pl. Wright. 2. 59. Torrey, Mex. Bound. 66.

G. parviflora. Dougl.; Lehmann in Hook. Fl. Bor.-Am. 1. 208; Pug. Pl. Nov. 2. 15. Don, Mill. 2. 683. Hook. Bot. Mag. **t. 3506**; Lond. Journ. Bot. 6. 225. Torr. & Gray, Fl. 1. 519; Pac. R. Rep. 2. 164. Eat. & Wr. 251. Dietr. 2. 1297. Walp. Rep. 2. 97. Engelm. & Gray, Pl. Lindh. 37. Gray, Pl. Fendl. 47; Pl. Lindh. 190; Pl. Wright. 2. 59; Proc. Acad. Philad. 1863, 61; Proc. Am. Acad. 8. 384. Torrey, Emory's Rep. 140; Pac. R. Rep. 4. 87; Mex. Bound. 66; Bot. Wilkes, 299. Engelm. Pl. Upp. Miss. 192. Rothr. Syn. Gaurin. 354. Porter, Hayd. Rep. 1870, 476; 1871, 483; Fl. Col. 46. Watson, King's Rep. 5. 113; Pl. Wheeler, 9. Coulter, Hayd. Rep. 1872, 767. Young, Fl. Texas, 265. Brew. & Watson, Bot. Calif. 1. 234.

G. mollis. Nutt.; Torrey, Ann. Lyc. N. Y. 2. 200, not HBK. James, Long's Exped. 2. 264. Eat. & Wr. 251.

Schizocarya micrantha. Spach, Monogr. Onagr. 62.

G. sinuata. Nutt.; Seringe, DC. Prodr. 3. 44. Don, Mill. 2. 683. Spach, Monogr. Onagr. 58. Torr. & Gray, Fl. 1. 518; Pac. R. Rep. 2. 126 & 164. Eat. & Wr. 251. Dietr. 2. 1296. Engelm. & Gray, Pl. Lindh. 9 & 32. Gray, Pl. Lindh. 190; Pl. Wright. 1. 72 & 2. 59; Hall's Pl. Texas, 9. Scheele, Roem. Texas, 431. Rothr. Syn. 353. A. H. Smith, Proc. Acad. Philad. 1867, 19. Young, Fl. Texas, 265.

G. suffulta. Engelm.; Gray, Pl. Lindh. 190; Pl. Wright. 1. 72 & 2. 59; Hall's Pl. Texas, 9. Walp. Ann. 2. 536. Torr. & Gray, Pac. R. Rep. 2. 164. Torrey, Mex. Bound. 66. Rothr. Syn. Gaurin. 352. Watson, Pl. Wheeler, 9.

G. tripetala. Cavanilles, Icon. Pl. 4. 66, **t. 396, f. 1.** Persoon, 1. 409. Willd. Enum. 409. HBK. Nov. Gen. 6. 94. Seringe, DC. Prodr. 3. 44. Don, Mill. 2. 683. Spach, Monogr. Onagr. 56. Torr. & Gray, Fl. 1. 519. Dietr. 2. 1297. Gray, Pl. Wright. 1. 72; Hall's Pl. Texas, 9. Rothr. Syn. Gaurin. 352.

G. hexandra. Ortega, Nov. Pl. Matrit. 14.

G. triangulata. Buckley, Proc. Acad. Philad. 1861, 454; fide Gray, same, 1863, 163.

G. villosa. Torrey, Ann. Lyc. N. Y. 2. 200. Torr. & Gray, Fl. 1. 518. Eat. & Wr. 251. Walp. Rep. 2. 97. Engelm. in Wisliz. Rep. 4. Gray, Pl. Fendl. 46; Pl. Wright. 1. 73 & 2. 59. Torrey, Marcy's Rep. 285; Pac. R. Rep. 4. 87. Rothr. Syn. Gaurin. 357.

G. —— ? Gray, Pl. Wright. 1. 73.

GAYOPHYTUM diffusum. Torr. & Gray, Fl. 1. 513. Walp. Rep. 2. 76. Torrey, Frem. Rep. 315. Hook. in Lond. Journ. Bot. 6. 224. Watson, King's Rep. 5. 105. Porter, Hayd. Rep. 1871, 483. Coulter, same, 1872, 767. Brew. & Wats. Bot. Calif. 1. 221.

G. racemosum. Torr. & Gray, Fl. 1. 514. Walp. Rep. 2. 76. Hook. in Lond. Journ. Bot. 6. 225. Gray, Proc. Acad. Philad. 1863, 61. Watson, King's Rep. 5. 105; Pl. Wheeler, 9. Porter, Hayd. Rep. 1871, 483; Fl. Col. 44. Coulter, Hayd. Rep. 1872, 767. Brew. & Wats. Bot. Calif. 1. 221.

G. Nuttallii. Torr. & Gray, Fl. 1. 514. Walp. Rep. 2. 76. Torrey, Pac. R. Rep. 4. 87. Anderson, Cat. Pl. Nev. 120. Gray, Proc. Am. Acad. 8. 384.

G. cæsium. Torr. & Gray, Fl. 1. 514. Walp. Rep. 2. 76. Gray, Proc. Am. Acad. 7. 340.

G. ramosissimum. Torr. & Gray, Fl. 1. 513. Walp. Rep. 2. 76. Hook. in Lond. Journ. Bot. 6. 224. Torrey, Stansb. Rep. 387; Bot. Wilkes, 299. Durand, Fl. Utah, 164. Engelm. Pl. Upp. Miss. 192. Gray, Am. Journ. Sci. 2. 33. 405. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 105; Pl. Wheeler, 9. Porter, Hayd. Rep. 1871, 483; Fl. Col. 44. Coulter, Hayd. Rep. 1872, 767. Rothr. Pl. Wheeler, 40. Brew. & Wats. Bot. Calif. 1. 221.

Var. **deflexum.** Hook. in Lond. Journ. Bot. 6. 224. Gray, Proc. Acad. Philad. 1863, 61.

GODETIA albescens. Lindl. Bot. Reg. 27, Misc. 61, & 28, **t. 9.** Walp. Rep. 2. 87. Brew. & Wats. Bot. Calif. 1. 229.

Œnothera purpurea. Bentham, Pl. Hartw. 310.

Œnothera albescens. Watson, Rev. Œnoth. in Proc. Am. Acad. 8. 597.

G. amœna. Lilja in Lindblom, Bot. Notis. 1839, 53; Linnæa, 15. 265. Brew. & Wats. Bot. Calif. 1. 230.

Œnothera amœna. Lehmann, Ind. Sem. h. Hamb. 1821, 8 (Litt.-Ber. zu Linnæa, 1828, 8); Nov. Stirp. Pug. 1. 23; Nov. Act. Acad. Leop. 14. 811, **t. 45.** Don, Mill. 2. 687. Torr. & Gray, Fl. 1. 503. Regel, Gartenfl. 13. 193, **t. 439.** Watson, Rev. Œnoth. 599. Torrey, Bot. Wilkes, 297.

Œnothera roseo-alba. Hornemann, Cat. Sem. Erf. 1824. Reichenb. Icon. Exot. **t. 47** & **150.** Sweet, Brit. Fl. Gard. **t. 268.** Seringe, DC. Prodr. 3. 48. Maund, Bot. Gard. 8, **t. 365.** Dietr. 2. 1289.

Œnothera Lindleyi. Dougl.; Hook. Bot. Mag. **t. 2832.** Sweet, Brit. Fl. Gard. 2 ser. **t. 19.** Don, Mill. 2. 688. Maund, Bot. Gard. 8, **t. 365.** Lehmann, Hook. Fl. Bor.-Am. 1. 211. Lindl. Bot. Reg. **t. 1405.** Hook. & Arn. Bot. Beechey, 141 & 342. Torr. & Gray, Fl. 1. 502. Eat. & Wr. 330. Dietr. 2. 1287. Benth. Bot. Sulph. 14. Meyer, Ind. Sem. Petrop. 11, Suppl. 58. Wood, Bot. & Fl. 126. Gray, Proc. Am. Acad. 8. 384.

Œnothera bifrons. Lindl. Bot. Reg. 17, **t. 1405.**

G. Lehmanniana & *Lindleyana.* Spach, Monogr. Onagr. 72; Hist. Veg. 4. 391 & 392.

G. rubicunda. Lindl. Bot. Reg. 22, **t. 1856**, & under t. 1880. Walp. Rep. 2. 87. Wood, Bot. & Fl. 126.

G. vinosa. Lindl. Bot. Reg. 22, **t. 1880**. Walp. l. c. Wood, l. c.

Œnothera rubicunda. Hook. & Arn. Bot. Beechey, 342. Torr. & Gray, Fl. 1. 502. Dietr. 2. 1287.

G. macrantha. Lilja, Lindb. Bot. Notis. 1839, 53; Linnæa, 15. 265 & 17. 110.

Œnothera vinosa. Torr. & Gray, Fl. 1. 503. Dietr. 2. 1287. Torrey, Pac. R. Rep. 7. 11. Cooper, same, 12. 61.

? *Œnothera arcuata.* Kellogg, Proc. Calif. Acad. 1. 58.

G. Nivertiana. Gouj. in Rev. Hort. 1872, 431, **t.**

G. biloba. Watson, Bot. Calif. 1. 231.

Œnothera tenella, var. *tenuifolia.* Bentham, Pl. Hartw. 310.

Œnothera biloba. Durand, Pl. Pratten. 87. Torrey, Pac. R. Rep. 4. 86. Watson, Rev. Œnoth. 599.

G. Bottæ. Spach, Monogr. Onagr. 73. Walp. Rep. 2. 88. Brew. & Wats. Bot. Calif. 1. 231.

Œnothera Bottæ. Torr. & Gray, Fl. 1. 505. Dietr. 2. 1285. Watson, l. c.

Œnothera Californica. Dietr. 2. 1288.

Œnothera rubicunda. Benth. Pl. Hartw. 310. Gray, Proc. Bost. Soc. 7. 146.

Œnothera tenella. Gray, l. c.

G. epilobioides. Watson, Bot. Calif. 1. 231.

Œnothera epilobioides. Nutt.; Torr. & Gray, Fl. 1. 511. Walp. Rep. 2. 78. Watson, Rev. Œnoth. 599.

Œnothera rubicunda. Torr. & Gray, Pac. R. Rep. 2. 121. Anderson, Cat. Pl. Nev. 120.

Œnothera tenella, var. *tenuifolia.* Torrey, Pac. R. Rep. 4. 86.

Œnothera vinosa. Torrey, Mex. Bound. 66.

Œnothera viminea. Watson, King's Rep. 5. 108.

Œnothera tenella. Gray, Proc. Am. Acad. 8. 384.

G. grandiflora. Lindl. Bot. Reg. 27, Misc. 61, & 28, **t. 61**. Walp. Rep. 2. 87. Sweet, Ornam. Fl. Gard. 2, **t. 74**. Lemaire, Jard. Fl. 3, **t. 318**. Brew. & Wats. Bot. Calif. 1. 228.

Œnothera Whitneyi. Gray, Proc. Am. Acad. 7. 340 & 400. Hook. f. Bot. Mag. t. **5867**. Boland. Cat. 12. Gard. Chronicle, 1871, 103.

Œnothera grandiflora. Watson, Rev. Œnoth. 596.

G. hispidula. Watson, Bot. Calif. 1. 609.

Œnothera rubicunda. Durand, Pl. Pratten. 87.

Œnothera hispidula. Watson, Rev. Œnoth. 599.

G. lepida. Lindl. Bot. Reg. 22, **t. 1849**. Walp. Rep. 2. 88. Brew. & Wats. Bot. Calif. 1. 229.

Œnothera lepida. Hook. & Arn. Bot. Beechey, 342. Torr. & Gray, Fl. 1. 504. Dietr. 2. 1287. Benth. Pl. Hartw. 310. Torrey, Pac. R. Rep. 4. 86. Cooper, same, 12. 61. Wood, Bot. & Fl. 126. Watson, Rev. Œnoth. 597.

Œnothera purpurea. Durand, Pl. Pratten. 88, in part.

Var. **parviflora.** Watson, Bot. Calif. 1. 229.

Œnothera decumbens. Dougl.; Hook. Bot. Mag. **t. 2889**. Lindl. Bot. Reg. 15, **t. 1221**. Lehm. in Hook. Fl. Bor.-Am. 1. 211. Don, Mill. 2. 688. Torr. & Gray, Fl. 1. 504. Eat. & Wr. 331. Dietr. 2. 1287. Durand, Pl. Pratten. 87.

G. decumbens. Spach, Monogr. Onagr. 68, **t. 30, f. 2**; Hist. Veg. 4. 388, **t. 86, f. 2**. Walp. Rep. 2. 88.

Œnothera viminea. Torrey, Pac. R. Rep. 4. 86, in part.
Œnothera densiflora, var. Gray, Proc. Am. Acad. 8. 384, in part.
Œnothera lepida, var. *parviflora.* Watson, Rev. Œnoth. 597.

Var. **Arnottii.** Watson, Bot. Calif. 1. 229.
Œnothera viminea, var. Hook. & Arn. Bot. Beechey, 342.
Œnothera Arnottii. Torr. & Gray, Fl. 1. 503.
G. Arnottii. Walp. Rep. 2. 88.
Œnothera lepida, var. *Arnottii.* Watson, Rev. Œnoth. 597.

G. purpurea. Watson, Bot. Calif. 1. 229.
Œnothera purpurea. Curtis, Bot. Mag. **t. 352.** Willd. Spec. 2. 311. Persoon, 1. 409. Ait. f. Hort. Kew. 2. 344. Spreng. Syst. 2. 228. Maund, Bot. Gard. 1, **t. 79.** Seringe, DC. Prodr. 3. 49. Lehm. in Hook. Fl. Bor.-Am. 1. 211. Don, Mill. 2. 688. Hook. & Arn. Bot. Beechey, 341. Torr. & Gray, Fl. 1. 504. Eat. & Wr. 331. Dietr. 2. 1287. Benth. Bot. Sulph. 15. Boland. Cat. 12. Gray, Proc. Am. Acad. 8. 384, in part. Watson, Rev. Œnoth. 596.
Œnothera humilis. Donn, Ind. Hort. Cant. 41. Poir. Suppl. 4. 144.
G. Willdenowiana. Spach, Monogr. Onagr. 68; Hist. Veg. 4. 387.

G. quadrivulnera. Spach, Monogr. Onagr. 69; Hist. Veg. 4. 389. Walp. Rep. 2. 88. Brew. & Wats. Bot. Calif. 1. 230.
Œnothera quadrivulnera. Dougl.; Lindl. Bot. Reg. 13, **t. 1119.** Lehm. in Hook. Fl. Bor.-Am. 1. 213. Don, Mill. 2. 684. Torr. & Gray, Fl. 1. 504. Eat. & Wr. 331. Dietr. 2. 1285. Cooper, Pac. R. Rep. 12. 61. Watson, Rev. Œnoth. 598. Torrey, Bot. Wilkes, 297.
Œnothera tenella, var. *tenuifolia.* Hook. & Arn. Bot. Beechey, 342, in part. Torr. & Gray, Fl. 1. 504.
Œnothera viminea. Torrey, Pac. R. Rep. 4. 86, in part.
Œnothera purpurea. Durand, Pl. Pratten. 88, in part.

G. Romanzovii. Spach, ll. cc. 70 & 390. Brew. & Wats. Bot. Calif. 1. 230.
Œnothera Romanzovii. Ledebour, Mém. Acad. Petersb. 8. 314, **t. 11.** Hornem. Hort. Hafn. Suppl. 1. 133. Don in Lindl. Bot. Reg. 7, **t. 562** (Spreng. Neue Entdeck. 3. 176). Link, Enum. 378. Spreng. Syst. 2. 228. Seringe, DC. Prodr. 3. 49. Lehm. in Hook. Fl. Bor.-Am. 1. 212. Don, Mill. 2. 688. Torr. & Gray, Fl. 1. 503. Eat. & Wr. 331. Dietr. 2. 1287. Watson, Rev. Œnoth. 598.

G. tenella. Watson, Bot. Calif. 1. 230.
Œnothera tenella. Cav. Icon. 4. 66, **t. 396, f. 2.** Ruiz & Pav. Fl. Peruv. 3. 80, **t. 316, fig. b.** Persoon, 1. 408. Poir. Suppl. 4. 141. Sims, Bot. Mag. **t. 2424.** Spreng. Syst. 2. 228. Sweet, Brit. Fl. Gard. **t. 167.** Seringe, DC. Prodr. 3. 48. Don, Mill. 2. 687. Torr. & Gray, Fl. 1. 504, excl. var. Dietr. 2. 1287. Watson, Rev. Œnoth. 598.
G. Cavanillesii. Spach, Monogr. Onagr. 71; Hist. Veg. 4. 390. Walp. Rep. 2. 88. Gay, Fl. Chil. 2. 338.
Œnothera viminea, var. *parviflora.* Hook. & Arn. Bot. Beechey, 342. Torrey, Pac. R. Rep. 4. 86.
Œnothera viminea. Torrey, Pac. R. Rep. 4. 86, in part.
Œnothera purpurea. Gray, Proc. Am. Acad. 8. 384, in part.

G. viminea. Spach, Monogr. Onagr. 69; Hist. Veg. 4. 388. Walp. Rep. 2. 87. Brew. & Wats. Bot. Calif. 1. 230.
Œnothera viminea. Dougl.; Hook. Bot. Mag. **t. 2873.** Lindl. Bot. Reg. 15, **t. 1220.** Lehm. in Hook. Fl. Bor.-Am. 1. 211. Don, Mill. 2. 688. Maund, Bot. Gard. 8, **t. 362**, & 13, **t. 581.** Torr. & Gray, Fl. 1. 503. Eat. & Wr. 330. Dietr.

2. 1287. Torrey, Pac. R. Rep. 4. 86 in part, & 7. 11; Mex. Bound. 66. Boland. Cat. 12. Watson, Rev. Œnoth. 598.

? *Œnothera tenella*, var. *tenuifolia*. Lindl. Bot. Reg. 19, **t. 1587.**

Var. **intermedia.** Kellogg, Proc. Calif. Acad. 1. 60.

G. Williamsoni. Watson, Bot. Calif. 1. 230.

G. Lindleyi, var. Durand & Hilgard, Journ. Acad. Philad. 3. 39.

Œnothera Williamsoni. Dur. & Hilg. in Pac. R. Rep. 5. 7, **t. 5.** Watson, Rev. Œnoth. 597.

G. Arnottii; lepida.
Cavanillesii; tenella.
decumbens; lepida.
Lindleyi; Williamsoni.
G. Lehmanniana, Lindleyana, macrantha, Nivertiana, rubicunda & *venosa;* amœna.
Willdenowiana; purpurea.

HETEROGAURA Californica. Rothrock, Syn. Gaurin. in Proc. Am. Acad. 6. 354. Brew. & Wats. Bot. Calif. 1. 234.

Gaura heterandra. Torrey, Pac. R. Rep. 4. 87.

JUSSIÆA decurrens. DC. Prodr. 3. 56. Don, Mill. 2. 694. Torr. & Gray, Fl. 1. 521. Dietr. 2. 1294. Engelm. & Gray, Pl. Lindh. 9. Chapman, 140. Grisebach, Fl. Brit. W. Ind. 272. A. H. Smith, Proc. Acad. Philad. 1867, 19. Gray, Manual, 180; Hall's Pl. Texas, 9. Micheli, Mart. Fl. Bras. fasc. 67, 160, **t. 31,** & syn.

Ludwigia decurrens. Walter, 89. Poir. Suppl. 3. 513. Pursh, 111. Roem. & Schult. Syst. 3. 326. Spreng. Syst. 1. 445. Elliott, 1. 217. Eat. & Wr. 306.

Ludwigia jussiæoides. Michx. Fl. 1. 89, not Linn. Persoon, 1. 145.

J. erecta. Abbott, Insects, **t. 40**; not Linn. Spreng. Syst. 2. 236, in part. Nutt. Genera, 1. 279. Hook. Comp. Bot. Mag. 1. 26. Eat. & Wr. 289.

Ludwigia uniflora. Raf. Med. Rep. 5. 356. Roem. & Schult. Syst. 3. 328. Torrey, Fl. U. S. 181. Eat. & Wr. 305.

Œnothera alata. Raf. Fl. Lud. 95. DC. Prodr. 3. 46. Don, Mill. 2. 684.

J. tenuifolia. Nutt. in Am. Journ. Sci. 5. 294. Don, Mill. 2. 693. Dietr. 2. 1293. Eat. & Wr. 289.

Isnardia uniflora. Beck, Bot. 120.

Diplandra decurrens, compressa, pumila, montana, ovata & *heterophylla.* Raf. Autikon Bot. 35, 36.

Œnothera paludosa. Featherman, Rep. Louisiana Univ. 1870, 71.

J. octonervia. Lam. Dict. 3. 332; Ill. 2. 422, **t. 280, f. 1.** See syn. in Grisebach, Fl. Brit. W. Ind. 273, under *J. suffruticosa;* Wright, in Journ. Linn. Soc. 10. 479, under *J. salicifolia;* Micheli, l. c. 170.

J. occidentalis. Nutt.; Torr. & Gray, Fl. 1. 521. Walp. Rep. 2. 72. Engelm. & Gray, Pl. Lindh. 37. Young, Fl. Texas, 269.

J. Peruviana. Linn. Spec. 388. See syn. in Grisebach, l. c. 273, under *J. hirta,* Vahl; Micheli, l. c. 151.

J. pilosa. HBK. Nov. Gen. 6. 101, **t. 532.** DC. Prodr. 3. 53. See syn. in Grisebach, l. c. 272, under *J. variabilis,* Mey.; Wright, l. c. 477; Micheli, l. c. 164.

J. leptocarpa. Nutt. Gen. 1. 279. Spreng. Syst. 2. 232. DC. Prodr. 3. 53. Don, Mill. 2. 691. Hook. Comp. Bot. Mag. 1. 25. Torr. & Gray, Fl. 1. 521. Eat. & Wr. 289. Chapman, 140. Wood, Cl.-Book, 352; Bot. & Fl. 125. Smith, Proc. Acad. Philad. 1867, 19.

Adenola glauca. Raf. Aut. Bot. 37.

J. repens. Linn. Mant. 381. See syn. in Wight & Arn. Prodr. Ind. Or. 1. 335; Grisebach, l. c. 272; Micheli, l. c. 166, **t. 34, f. 2.** — DC. Prodr. 3. 54. Hook. Bot. Misc. 3. 312, **t. 40.** Torr. & Gray, Fl. 1. 520. Torrey, Mex. Bound. 66; Bot. Wilkes, 300. Gray, Manual, 180; Hall's Pl. Texas, 9. Smith, l. c.

J. grandiflora, var. β. Hook. Comp. Bot. Mag. 1. 25.

Adenola longipes. Raf. Aut. Bot. 37.

J. Boydiana. Featherman, Rep. Louisiana Univ. 1870, 73; fide Gray, Am. Journ. Sci. 3. 2. 375.

Var. **grandiflora.** Micheli, l. c. 168, & syn.

J. grandiflora. Michx. Fl. 1. 267. Persoon, 1. 469. Poir. Suppl. 3. 198. Pursh, 304. Raf. Fl. Lud. 96. Nutt. Genera, 1. 279. Sims, Bot. Mag. t. 2122. Elliott, 1. 480. Turpin, Dict. Sci. Nat. 24. 300, **t. 218.** Spreng. Syst. 2. 232. DC. Prodr. 3. 53. Don, Mill. 2. 691. Hook. Comp. Bot. Mag. 1. 25. Spach, Hist. Veg. 4. 344. Torr. & Gray, Fl. 1. 521. Eat. & Wr. 691. Dietr. 2. 1296. Chapman, 140. Wood, Cl.-Book, 352.

Adenola grandiflora. Raf. Aut. Bot. 37.

Var. **Californica.** Watson, Bot. Calif. 1. 217.

LUDWIGIA alata. Elliott, 1. 212 (Spreng. Neue Entdeck. 2. 102). Roem. & Schult. Syst. 3, Mant. 254. Dietr. 1. 508. Chapman, 142. Wood, Cl.-Book, 355; Bot. & Fl. 128.

Isnardia alata. DC. Prodr. 3. 61. Don, Mill. 2. 698. Eat. & Wr. 285.

Isnardia microcarpa. Hook. Comp. Bot. Mag. 1. 26.

L. alternifolia. Linn. Spec. 118. Hill, Veg. Syst. 10, **t. 46, f. 1.** Ait. Hort. Kew. 1. 162. Lam. Dict. 3. 614; Ill. 1. 312, **t. 77.** Gaertn. Fruct. 1. 158, **t. 31, f. 8.** Willd. Spec. 1. 672. Elliott, 1. 217. Bigel. Fl. Bost. 2 ed. 60. Torr. & Gray, Fl. 1. 522. Dietr. 1. 508. Eat. & Wr. 305. Torrey, Fl. N. Y. 1. 237. Gray, Pl. Fendl. 47; Manual, 180. Chapman, 140.

L. ramosissima. Walter, 89.

L. macrocarpa. Michx. Fl. 1. 89. Persoon, 1. 146. Pursh, 110. Roem. & Schult. Syst. 3. 326. Barton, Fl. N. Am. 1. 49, **t. 14.** Torrey, Fl. U. S. 180. Spreng. Syst. 1. 445.

Rhexia linearifolia. Poir. Dict. 6. 2. Pursh, 259. Nutt. Genera, 1. 244. Elliott, 1. 440. Eat. & Wr. 391.

L. aurantiaca. Raf. Med. Rep. 5. 358; Desv. Journ. Bot. 1. 223. Poir. Suppl. 5. 722. Roem. & Schult. Syst. 3. 228. Don, Mill. 2. 698. Dietr. 1. 509.

? *L. salicifolia.* Poir. Suppl. 3. 512.

L. microcarpa. Link, Enum. 141.

Isnardia alternifolia. DC. Prodr. 3. 60. Hook. Fl. 1. 214. Don, Mill. 2. 697. Beck, Bot. 119. Hook. Comp. Bot. Mag. 1. 26.

? *L. pruinosa.* Raf. Aut. Bot. 38.

L. arcuata. Walter, 89. Torr. & Gray, Fl. 1. 526. Chapman, 142. Gray, Manual, 181.

L. pedunculosa. Michx. Fl. 1. 88. Persoon, 1. 145. Poir. Suppl. 3. 511. Pursh, 111. Roem. & Schult. Syst. 3. 325. Elliott, 1. 215. Spreng. Syst. 1. 445. Dietr. 1. 508. Eat. & Wr. 305.

Isnardia pedunculosa. DC. Prodr. 3. 60. Don, 2. 697.

L. capitata. Michx. Fl. 1. 90. Persoon, 1. 146. Poir. Suppl. 3. 512. Pursh, 111. Roem. & Schult. Syst. 3. 327. Elliott, 1. 214. Spreng. Syst. 1. 445. Torr. & Gray, Fl. 1. 525. Dietr. 1. 508. Eat. & Wr. 305. Chapman, 142. Wood, Cl.-Book, 356; Bot. & Fl. 128.

L. suffruticosa. Walter, 90.

Isnardia capitata. DC. Prodr. 2. 60. Don, Mill. 2. 697.

L. cylindrica. Elliott, 1. 213. Roem. & Schult. Syst. 3². 254. Spreng. Neue Entdeck. 2. 193; Syst. 1. 446. Torr. & Gray, Fl. 1. 524. Dietr. 1. 508. Chapman, 141. Gray, Manual, 181; Hall's Pl. Texas, 9.

? *L. glandulosa.* Walter, 88.

L. heterophylla. Poir. Suppl. 3. 512. Roem. & Schult. Syst. 3. 327.

Isnardia cylindrica. DC. Prodr. 3. 61. Don, Mill. 2. 698. Hook. Comp. Bot. Mag. 1. 26. Eat. & Wr. 285.

Var. (?) **brachycarpa.** Torr. & Gray, Fl. 1. 524. Gray, Hall's Pl. Texas, 9.

Jussiæa brachycarpa. Lam. Dict. 3. 331.

L. hirtella. Raf. Desv. Journ. Bot. 1. 223; Med. Rep. 5. 358; Aut. Bot. 38. Poir. Suppl. 5. 722. Roem. & Schult. Syst. 3. 327. Torr. & Gray, Fl. 1. 522. Walp. Rep. 2. 74. Engelm. & Gray, Pl. Lindh. 9. Chapman, 141. Gray, Manual, 180; Hall's Pl. Texas, 9.

L. hirsuta. Pursh, 110. Hook. Comp. Bot. Mag. 1. 26. Dietr. 1. 508.

L. pilosa. Elliott, 1. 216. Spreng. Syst. 1. 445. Torrey, Fl. U. S. 181.

L. permollis. Barton, Fl. Philad. 1. 52.

Isnardia hirsuta, var. *permollis.* DC. Prodr. 3. 60.

L. lanceolata. Elliott, 1. 213. Spreng. Neue Entdeck. 2. 192; Syst. 1. 446. Roem. & Schult. Syst. 3². 254. Dietr. 1. 509. Chapman, 142. Wood, Bot. & Fl. 128.

Isnardia lanceolata. DC. Prodr. 3. 61. Don, Mill. 2. 698. Eat. & Wr. 285.

L. linearis. Walter, 89. Pursh, 110. Roem. & Schult. Syst. 3. 325. Elliott, 1. 215. Spreng. Syst. 1. 445. Torr. & Gray, Fl. 1. 523. Dietr. 1. 508. Eat. & Wr. 306. Chapman, 141. Gray, Manual, 181; Hall's Pl. Texas, 9.

L. angustifolia. Michx. Fl. 1. 88. Persoon, 1. 145. Poir. Suppl. 3. 513.

Isnardia linearis. DC. Prodr. 3. 60. Don, Mill. 2. 697. Hook. Comp. Bot. Mag. 1. 26.

Var. **puberula.** Engelm. & Gray, Pl. Lindh. 9.

L. linifolia. Poir. Suppl. 3. 513. Roem. & Schult. l. c. Torr. & Gray, Fl. 1. 523. Walp. Rep. 2. 75. Chapman, 141. Wood, Cl.-Book, 355; Bot. & Fl. 127.

L. microcarpa. Michx. Fl. 1. 88. Persoon, 1. 146. Juss. Ann. Mus. 3. 473 (Koen. Ann. Bot. 1. 540). Elliott, 1. 212. Spreng. Syst. 1. 446. Torr. & Gray, Fl. 1. 525. Dietr. 1. 508. Chapman, 142. Wood, Cl.-Book, 356; Bot. & Fl. 128.

Isnardia microcarpa. Poir. Suppl. 3. 188. Roem. & Schult. Syst. 3. 477. DC. Prodr. 3. 61. Don, Mill. 2. 698. Eat. & Wr. 285. Griseb. Fl. Brit. W. Ind. 271.

L. glandulosa. Pursh, 111.

L. natans. Elliott, 1. 581. Torr. & Gray, Fl. 1. 526. Eat. & Wr. 306. Walp. Rep. 2. 75. Gray, Pl. Lindh. 190; Pl. Wright. 1. 72; Hall's Pl. Texas, 9. Torrey, Pac. R. Rep. 4. 87; Mex. Bound. 66. Chapman, 142. Wood, Cl.-Book, 356; Bot. & Fl. 27. — Referred to *L. repens,* Swartz (as *Isnardia repens,* DC.), by Grisebach, Fl. Brit. W. Ind. 271.

L. fluitans. Scheele, Linnæa, 21. 580.

L. palustris. Elliott, 1. 211. See syn. in Willd. Spec. 1. 680, as *Isnardia.* — Torr. & Gray, Fl. 1. 525. Dietr. 1. 508. Torrey, Fl. N. Y. 1. 238. Gray, Pl. Fendl. 47; Pl. Lindh. 190; Manual, 181; Proc. Am. Acad. 8. 384; Hall's Pl. Texas, 9. Engelm. Pl. Upp. Miss. 192. Chapman, 142. Brew. & Wats. Bot. Calif. 1. 217.

Isnardia palustris. Linn. Spec. 120. Ait. Hort. Kew. 1. 164. Lam. Dict. 3. 313; Ill. 1. 312, **t. 77.** Schkuhr, Handb. 1. 84, **t. 25.** Persoon, 1. 146. Bigel. Fl. Bost. 61.

Nutt. Genera, 1 98. Roem. & Schult. Syst. 3. 476. Torrey, Fl. U. S. 1. 182. Hook. Fl. Bor.-Am. 1. 215; Comp. Bot. Mag. 1. 26. Beck, Bot. 120. Eat. & Wr. 285. Griseb. Fl. Brit. W. Ind. 271.

L. apetala. Walter, 89.

L. nitida. Michx. Fl. 1. 87. Juss. Ann. Mus. 3. 473 (Koen. Ann. Bot. 1. 539). Persoon, 1. 145. Pursh, 111. Spreng. Syst. 1. 445.

Isnardia nitida. Poir. Suppl. 3. 188.

? *Peplis Portula.* Schrank, Pfl. Lab. 14. Meyer, Pl. Lab. 73.

Isnardia palustris, var. *Americana.* DC. Prodr. 3. 61. Don, Mill. 2. 698.

Isnardia ascendens. Hall; Eat. & Wr. 285.

L. pilosa. Walter, 89. Torr. & Gray, Fl. 1. 524. Eat. & Wr. 305. Chapman, 141. Wood, Cl.-Book, 355; Bot. & Fl. 127.

? *L. rudis.* Walter, 89.

L. hirsuta. Lam. Dict. 3. 614; Ill. 1. 313. Willd. Spec. 1. 673.

L. mollis. Michx. Fl. 1. 90. Juss. ll. cc. Persoon, 1. 146. Pursh, 111. Elliott, 1. 214. Spreng. Syst. 1. 445. Dietr. 1. 508. Eat. & Wr. 305.

Isnardia mollis. Poir. Suppl. 3. 188. Roem. & Schult. Syst. 3. 476. DC. Prodr. 3. 60. Don, Mill. 2. 697. Hook. Comp. Bot. Mag. 1. 26.

Isnardia hirsuta. Poir., Roem. & Schult., DC., & Don, ll. cc. Beck, Bot. 120.

L. polycarpa. Short & Peter, Pl. Kentucky, Suppl. 2. 7. Torr. & Gray, Fl. 1. 525. Eat. & Wr. 306. Walp. Rep. 2. 75. Lesqx. Fl. Ark. 360. Gray, Manual, 180.

L. spathulata. Torr. & Gray, Fl. 1. 526. Walp. Rep. 2. 75. Chapman, 142. Wood, Cl.-Book, 356; Bot. & Fl. 127.

L. sphærocarpa. Elliott, 1. 213. Spreng. Neue Entdeck. 2. 193. Roem. & Schult. Syst. 3². 254. Spreng. Syst. 1. 446. Torr. & Gray, Fl. 1. 524. Dietr. 1. 509. Torrey, Fl. N. Y. 1. 238, **t. 29.** Chapman, 141. Gray, Manual, 180.

Isnardia sphærocarpa. DC. Prodr. 3. 61. Don, Mill. 2. 698. Eat. & Wr. 285.

L. virgata. Michx. Fl. 1. 89. Persoon, 1. 145. Poir Suppl. 3. 512. Pursh, 110. Roem. & Schult. Syst. 3. 327. Elliott, 1. 216 ? Spreng. Syst. 1. 445. Torr. & Gray, Fl. 1. 523. Dietr. 1. 508. Chapman, 141. Wood, Cl.-Book, 355; Bot. & Fl. 127.

? *L. alternifolia.* Walter, 89.

? *L. tuberosa.* Raf. Ann. Nat. 15.

Isnardia virgata. DC. Prodr. 3. 60. Don, Mill. 2. 697. Hook. Comp. Bot. Mag. 1. 26.

? *L. juncea.* Raf. Aut. Bot. 38.

L. alternifolia; virgata.
angustifolia; linearis.
apetala; palustris.
aurantiaca; alternifolia.
decurrens; Jussiæa decurrens.
fluitans; natans.
glandulosa; cylindrica, microcarpa.
hirsuta; hirtella, pilosa.
juncea; virgata.
jussiæoides; Jussiæa decurrens.
macrocarpa & microcarpa; alternifolia.
L. mollis; pilosa.
nitida; palustris.
pedunculosa; arcuata.
permollis & pilosa; hirtella.
pruinosa & ramosissima; alternifolia.
rudis; pilosa.
salicifolia; alternifolia.
suffruticosa; capitata.
tuberosa; virgata.
uniflora; Jussiæa decurrens.

ŒNOTHERA albicaulis. Nutt. in Fraser's Cat. 1813; Genera, 1. 245. Bradbury, Cat. 336. James, Cat. 179. Spreng. Syst. 2. 228. Torrey, Ann. Lyc. N. Y. 2. 201; Nicol. Rep. 150; Frem. Rep. 89 & 315; Emory's Rep. 140; Stansb. Rep. 387; Pac. R. Rep. 4. 86; Mex. Bound. 65; Bot. Wilkes, 297. Lehmann, Hook. Fl. Bor.-Am. 1. 210. Don, Mill. 2. 687. Torr. & Gray, Fl. 1. 495; Pac. R. Rep. 2. 164. Dietr. 2. 1287. Eat. & Wr. 330. Walp. Rep. 2. 80; Ann. 4. 677. Hook. in Lond. Journ. Bot. 6. 223. Gray, Pl. Wright. 1. 69 & 2. 56; Pl. Thurb. 300; Pac. R. Rep. 12. 43; Am. Journ. Sci. 2. 33. 405, in part, & 34. 333; Proc. Am. Acad. 8. 384. Durand, Fl. Utah, 164. Engelm. Pl. Upp. Miss. 191; Am. Journ. Sci. 2. 34. 334. Cooper, Pac. R. Rep. 12. 52. Pl. Bourgeau, 256. Porter, Hayd. Rep. 1870, 476; 1871, 483; Fl. Col. 44. Watson, King's Rep. 5. 106; Revis. Œnoth. in Proc. Am. Acad. 8. 582, excl. var. *Californica;* Pl. Wheeler, 9. Coulter, Hayd. Rep. 1872, 767. Brew. & Wats. Bot. Calif. 1. 223.

Œ. pallida. Lindl. Bot. Reg. 14, t. **1142**. Lehm. in Hook. Fl. Bor.-Am. 1. 210. Don, Mill. 2. 687. Torr. & Gray, Fl. 1. 495. Eat. & Wr. 330. Dietr. 2. 1287. Walp. Rep. 2. 80. Hook. in Lond. Journ. Bot. 6. 222.

Œ. Nuttallii. Sweet, Hort. Brit. 2 ed. 199.

Baumannia Nuttalliana & *Douglasiana.* Spach, Hist. Veg. 4. 352.

Anogra Nuttalliana & *Douglasiana.* Spach, Monogr. Onagr. 20 & 21.

Œ. pinnatifida, var. *integrifolia.* Gray, Pl. Fendl. 44. Torr. Pac. R. Rep. 7. 11.

Var. **runcinata.** Engelm. in Am. Journ. Sci. 2. 34. 334. Watson, l. c. 582.

Œ. pinnatifida. Gray, Pl. Fendl. 44, in part. Torrey, Emory's Rep. 140.

Var. **brevifolia.** Engelm. l. c. 335. Watson, l. c.

Var. (?) **decumbens.** Watson, Am. Naturalist, 9. 270.

Œ. alyssoides. Hook. & Arn. Bot. Beechey, 340. Torr. & Gray, Fl. 1. 511; Pac. R. Rep. 2. 121. Hook. Icon. t. **339**. Torrey, Frem. Rep. 315, in part. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 111; Rev. Œnoth. 591; Pl. Wheeler, 9. Brew. & Wats. Bot. Calif. 1. 226.

Sphærostigma alyssoides. Walp. Rep. 2. 78.

Var. **villosa.** Watson, Rev. Œnoth. 591. Brew. & Wats. l. c. 227.

Œ. scapoidea. Torrey, Stansb. Rep. 387, in part.

Var. **minutiflora.** Watson, l. c. Brew. & Wats. l. c.

Œ. andina. Nutt.; Torr. & Gray, Fl. 1. 512. Watson, King's Rep. 5. 112; Rev. Œnoth. 594. Coulter, Hayd. Rep. 1872, 767. Torrey, Bot. Wilkes, 298. Brew. & Wats. Bot. Calif. 1. 226.

Sphærostigma andina. Walp. Rep. 2. 79.

Œ. arborea. Kellogg, Proc. Calif. Acad. 2. 32. Watson, Rev. Œnoth. 596. (Lower California.)

Œ. biennis. Linn. Spec. 346. Hill, Veg. Syst. 9. 4, t. **3**, f. **2**. Oeder, Fl. Dan. 3, t. **446**. Ait. Hort. Kew. 2. 2. Plenck, Icon. Pl. Med. 3, t. **295**. Lam. Ill. 2. 421, t. **279**, f. **1**; Dict. 4. 56[illegible]. Willd. Spec. 2. 306. Michx. Fl. 1. 224. Persoon, 1. 407. Pursh, 261. Bigel. Fl. Bost. 90. Nutt. Genera, 1. 245. Elliott, 1. 441. James, Long's Exped. 2. 343. Torrey, Fl. U. S. 387; Ann. Lyc. N. Y. 2. 201; Fl. N. Y. 1. 234; Nicol. Rep. 150; Frem. Rep. 89; Sitgr. Rep. 159; Bot. Wilkes, 297. Spreng. Syst. 2. 227. Seringe, DC. Prodr. 3. 46. Hook. Fl. Bor.-Am. 1. 209; Comp. Bot. Mag. 1. 25. Don, Mill. 2. 685. Beck, Bot. 118. Hook. & Arn. Bot. Beechey, 141. Torr. & Gray, Fl. 1. 492. Eat. & Wr. 330. Ledeb. Fl. Ross. 2. 112, with syn. Gray, Pl. Fendl. 43; Pac. R. Rep. 12. 43; Ives's Rep. 11; Manual, 178. Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 192. Tuckerman, Josselyn's Rarities, 87. Cooper, Pac. R. Rep. 12. 61. Chapman, 138. Pl. Bourgeau, 256. An-

derson, Cat. Pl. Nev. 120. Porter, Hayd. Rep. 1870, 476; 1871, 483; Fl. Col. 44. Watson, King's Rep. 5. 106; Rev. Œnoth. 579; Pl. Wheeler, 9. Coulter, Hayd. Rep. 1872, 767. Rothr. Pl. Wheeler, 39. Brew. & Wats. Bot. Calif. 1. 223.

Œ. parviflora. Linn. Spec. 2 ed. 492. Hill, Veg. Syst. 11, **t. 9, f. 3.** Ait. Hort. Kew. 2. 2. Lam. Dict. 4. 551. Willd. Spec. 2. 306. Persoon, 1. 408. Pursh, 261. Torrey, Fl. U. S. 388. Spreng. Syst. 2. 227. Seringe, DC. Prodr. 3. 47. Don, Mill. 2. 685. Beck, Bot. 118. Eat. & Wr. 330. Dietr. 2. 1286.

Onagra biennis. Scopoli, Fl. Carn. 2 ed. n. 451. Moench, Meth. 675. Gaertn. Fruct. **t. 32.**

Œ. gauroides. Hornem. Hort. Hafn. 362. Seringe, DC. Prodr. 3. 52. Don, Mill. 2. 686. Dietr. 2. 1286.

? *Onosuris acuminata.* Raf. Fl. Lud. 96. Seringe, DC. Prodr. 3. 64. Don, Mill. 2. 700.

Onagra vulgaris & chrysantha. Spach, l. c. 33 & 35; Hist. Veg. 4. 362.

Var. **grandiflora.** Lindl. Bot. Reg. 19, **t. 1604.** Torr. & Gray, Fl. 1. 492. Ruprecht, Bull. Acad. Petersb. 14. 237 (Bull. Soc. Bot. Fr. 3. 437). Gray, Manual, 178. Watson, King's Rep. 5. 106; Rev. Œnoth. 579. Buchan, Can. Naturalist, 14. 294. Brew. & Wats. Bot. Calif. 1. 223.

Œ. grandiflora. Ait. Hort. Kew. 2. 2. Bartram, Travels, 406. Lam. Dict. 4. 554. Willd. Spec. 2. 306. St. Hil. Pl. France, 2, **t. 130.** Pursh, 261. Sims, Bot. Mag. **t. 2068.** Elliott, 1. 442. Barton, Fl. N. Am. 1. 21, **t. 6.** Torrey, Fl. U. S. 388. Spreng. Syst. 2. 227. Seringe, DC. Prodr. 3. 46. Don, Mill. 2. 685. Beck, Bot. 118. Eat. & Wr. 330. Dietr. 2. 1285. Griseb. Pl. Lorentz. 94.

Œ. suaveolens. Desf. Tabl. 169. Persoon, 1. 408. Poir. Suppl. 4. 141. Seringe, DC. Prodr. 3. 46. Don, Mill. 2. 685. Eat. & Wr. 332. Dietr. 2. 1285.

Œ. Lamarckiana. Seringe, DC. Prodr. 3. 46. Don, Mill. 2. 685. Eat. & Wr. 332. Dietr. 2. 1285. Lemaire, Ill. Hort. 9, **t. 318.**

Var. **muricata.** Lindl. Bot. Reg. 19, under t. 1604. Torr. & Gray, Fl. 1. 492. Gray, Manual, 178.

Œ. muricata. Linn. Syst. 12 ed. 263. Murray, Comm. Goett. 6. 24, **t. 1.** Lam. Dict. 4. 551. Willd. Spec. 2. 307. Persoon, 1. 408. Ait. f. Hort. Kew. 2. 341. Pursh, 261. Elliott, 1. 441. Hornem. Fl. Dan. 10, **t. 1752.** Torrey, Fl. U. S. 388. Seringe, DC. Prodr. 3. 47. Don, Mill. 2. 685. Beck, Bot. 118. Eat. & Wr. 330. Ruprecht, Bull. Acad. Petersb. 1856, 14. 237 (Bull. Soc. Bot. France, 3. 437).

Onagra muricata. Moench, Meth. 675.

Var. **canescens.** Torr. & Gray, Fl. 1. 492. Gray, Pl. Fendl. 43. Newberry, Pac. R. Rep. 6. 74.

? *Œ. pubescens.* Nees, Pl. Neuwied, 9.

Var. **hirsutissima.** Gray, Pl. Fendl. 43; Pl. Wright. 1. 69 & 2. 56. Torrey, Mex. Bound. 65. Watson, Rev. Œnoth. 579. Brew. & Wats. Bot. Calif. 1. 223.

Œ. odorata ? Hook. & Arn. Bot. Beechey, 343.

Œ. Hookeri. Torr. & Gray, Fl. 1. 493. Walp. Rep. 2. 81.

Œ. biennis. Torrey, Emory's Rep. 140; Mex. Bound. 65. Gray, Proc. Bost. Soc. Nat. Hist. 7. 146.

Var. **cruciata.** Torr. & Gray, Fl. 1. 492. Gray, Manual, 178. Watson, l. c. 579.

Œ. cruciata. Nutt.; Don, Mill. 2. 686.

Œ. bistorta. Nutt.; Torr. & Gray, Fl. 1. 508. Torrey, Pac. R. Rep. 7. 11; Mex. Bound. 66. Watson, Rev. Œnoth. 592. Brew. & Wats. Bot. Calif. 1. 225.

? *Holostigma Bottæ.* Spach, Monagr. Onagr. 16.

Sphærostigma bistorta. Walp. Rep. 2. 77.

Œ. cheiranthifolia. Gray, Ives's Rep. 12.

Var. (?) **Veitchiana.** Hook. Bot. Mag. **t. 5078** (Gard. Chron. 1858, 844). L'Hort. Fr. 1859, **t. 3.** Journ. d'Hort. 3, **t. 2.** Watson, l. c. 593. Brew. & Wats. Bot. Calif. 1. 225.

Œ. graciliflora. Torrey, Pac. R. Rep. 4. 87.

Œ. Boothii. Dougl.; Lehm. in Hook. Fl. Bor.-Am. 1. 213. Don, Mill. 2. 684. Spach, Monogr. Onagr. 16. Torr. & Gray, Fl. 1. 509. Eat. & Wr. 331. Dietr. 2. 1285. Watson, King's Rep. 5. 110; Rev. Œnoth. 591; Pl. Wheeler, 9. Brew. & Wats. Bot. Calif. 1. 227.

Œ. pygmæa. Dougl.; Lehm. in Hook. Fl. Bor.-Am. 1. 213. Don, Mill. 2. 685. Spach, Monogr. Onagr. 16. Eat. & Wr. 331. Dietr. 2. 1285.

Sphærostigma Boothii. Walp. Rep. 2. 77.

Œ. brachycarpa. Gray, Pl. Wright. 1. 70 & 2. 57; Proc. Am. Acad. 8. 384. Torrey, Mex. Bound. 65. Walp. Ann. 4. 676. Watson, Rev. Œnoth. 586.

? *Œ. marginata*, var. *purpurea.* Watson, King's Rep. 5. 108. Porter, Hayd. Rep. 1871, 483. Coulter, same, 1872, 767.

Œ. breviflora. Torr. & Gray, Fl. 1. 506. Walp. Rep. 2. 85. Watson, King's Rep. 5. 109; Rev. Œnoth. 588. Porter, Fl. Col. 46. Brew. & Wats. Bot. Calif. 1. 224.

Œ. Nuttallii. Torrey, Frem. Rep. 89. Gray, Proc. Acad. Philad. 1863, 61.

Œ. brevipes. Gray, Pac. R. Rep. 4. 87; Ives's Rep. 12. Watson, Rev. Œnoth. 595. Parry, Am. Naturalist, 9. 271. Brew. & Wats. Bot. Calif. 1. 227.

Œ. clavæformis. Torrey, Mex. Bound. 66, in part.

Var. **parviflora.** Watson, Am. Naturalist, 9. 271; Brandegee, Fl. S. W. Col. 236. Parry, Am. Naturalist, 9. 19.

Œ. cæspitosa. Nutt. in Fraser's Cat. 1813; Genera, 1. 246. Sims, Bot. Mag. **t. 1593.** Pursh, 735. Poir. Suppl. 5. 743. James, Cat. 180. Spreng. Syst. 2. 230. Seringe, DC. Prodr. 3. 46. Don, Mill. 2. 687. Torr. & Gray, Fl. 1. 500. Eat. & Wr. 332. Dietr. 2. 1287. Torrey, Nicol. Rep. 150; Stansb. Rep. 387. Hook. in Lond. Journ. Bot. 6. 223. Engelm. Pl. Upp. Miss. 191. Gray, Pac. R. Rep. 12. 43; Proc. Am. Acad. 8. 384. Durand, Fl. Utah, 164. Porter, Hayd. Rep. 1870, 476; Fl. Col. 45. Watson, Rev. Œnoth. 585. Rothr. Pl. Wheeler, 40. Brew. & Wats. Bot. Calif. 1. 224.

Œ. scapigera. Pursh, 263. Poir. Suppl. 5. 743. Link, Enum. 1. 377.

Pachylophis Nuttallii. Spach, Monogr. Onagr. 36, **t. 30, f. 1**; Hist. Veg. 4. 365, **t. 86, f. 1.**

Œ. montana. Nutt.; Torr. & Gray, Fl. 1. 500. Walp. Rep. 2. 83. Torrey, Frem. Rep. 315; Stansb. Rep. 387. Gray, Pl. Fendl. 45. Engelm. l. c. 191.

Œ. marginata. Nutt.; Hook. & Arn. Bot. Beechey, 342. Torr. & Gray, Fl. 1. 500; Pac. R. Rep. 2. 120. Walp. Rep. 2. 83. Torrey, Stansb. Rep. 387; Mex. Bound. 65. Gray, Proc. Acad. Philad. 1863, 61. Hook. f. Bot. Mag. **t. 5828.** Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 108. Porter, Hayd. Rep. 1871, 483. Coulter, same, 1872, 767.

Œ. eximia. Gray, Pl. Fendl. 45; Ives's Rep. 11. Walp. Ann. 2. 533.

Œ. Californica. Watson, Bot. Calif. 1. 223.

Œ. albicaulis, var. *Californica.* Watson, Rev. Œnoth. 582.

Œ. canescens. Torrey, Frem. Rep. 315 (Bot. Zeit. 5. 44). Gray, Pl. Fendl. 44; Pl. Wright. 1. 70. Walp. Ann. 1. 292. Watson, l. c. 587. Porter, Fl. Col. 45.

Œ. guttulata. Hook. in Lond. Journ. Bot. 6. 222.

Œ. cardiophylla. Torrey, Pac. R. Rep. 5. 360; Mex. Bound. 66. Watson, Rev. Œnoth. 595. Brew. & Wats. Bot. Calif. 1. 227.

Œ. chamænerioides. Gray, Pl. Wright. 2. 58; Pl. Thurb. 298; Ives's Rep. 12. Walp. Ann. 4. 677. Torrey, Mex. Bound. 66. Watson, Rev. Œnoth. 593.

Œ. cheiranthifolia. Hornemann, Hort. Hafn. Suppl. Spreng. Syst. 2. 228. Lindl. Bot. Reg. 12, **t. 1040.** Seringe, DC. Prodr. 3. 46. Don, Mill. 2. 684, **f. 95.** Torr. & Gray, Fl. 1. 509. Dietr. 2. 1284. Benth. Bot. Sulph. 15. Torrey, Pac. R. Rep. 7. 11; Bot. Wilkes, 298. Watson, Rev. Œnoth. 592. Brew. & Wats. Bot. Calif. 1. 225.

Œ. spiralis. Hook. Fl. Bor.-Am. 1. 213. Don, Mill. 2. 685. Spach, Monogr. Onagr. 16. Hook. & Arn. Bot. Beechey, 141 & 341. Eat. & Wr. 332. Dietr. 2. 1285.

Holostigma cheiranthifolium. Spach, l. c. 15.

Agassizia cheiranthifolia. Spach, Hist. Veg. 4. 348.

Sphærostigma cheiranthifolium. Fisch. & Mey. Ind. Sem. Petrop. 2. 25 (Litt.-Ber. zu Linnæa, 1837, 120). Walp. Rep. 2. 77. Gay, Fl. Chil. 2. 330.

Sphærostigma spirale. Fisch. & Mey. l. c.

Œ. viridescens. Torrey, Pac. R. Rep. 4. 87.

Œ. contorta. Bolander, Cat. 12.

Var. **suffruticosa.** Watson, Rev. Œnoth. 592. Brew. & Wats. l. c.

Œ. viridescens. Hook. Fl. Bor.-Am. 1. 214.. Don, Mill. 2. 685. Spach, Monogr. Onagr. 16. Torr. & Gray, Fl. 1. 508. Eat. & Wr. 332. Bolander, Cat. 12.

Sphærostigma viridescens. Walp. Rep. 2. 77.

Œ. coronopifolia. Torr. & Gray, Fl. 1. 495. Walp. Rep. 2. 80. Gray, Pl. Fendl. 43; Pl. Wright. 2. 57; Pac. R. Rep. 12. 43; Am. Journ. Sci. 2. 34. 333; Proc. Acad. Philad. 1863, 61. Hook. in Lond. Journ. Sci. 6. 222. Torrey, Sitgr. Rep. 159; Pac. R. Rep. 4. 86 & 7. 11; Mex. Bound. 65. Engelm. Pl. Upp. Miss. 191; Am. Journ. Sci. 2. 34. 333. Porter, Hayd. Rep. 1870, 476; Fl. Col. 44. Watson, King's Rep. 5. 106; Rev. Œnoth. 582. Rothr. Pl. Wheeler, 40.

Œ. pinnatifida. James, Long's Exped. 2. 154. Torrey, Ann. Lyc. N. Y. 2. 201.

Œ. dentata. Cavanilles, Icon. 4. 67, **t. 398.** Ruiz & Pav. Fl. Peruv. 3. 81, **t. 317.** Lindl. Coll. Bot. **t. 10.** Seringe, DC. Prodr. 3. 46. Presl, Rel. Hænk. 2. 31. Don, Mill. 2. 684. Torr. & Gray, Fl. 1. 511. Dietr. 2. 1284. Torrey, Pac. R. Rep. 4. 87. Gray, Ives's Rep. 12. Anderson, Cat. Pl. Nev. 120. Watson, Rev. Œnoth. 593. Brew. & Wats. Bot. Calif. 1. 226.

Holostigma argutum. Spach, Monogr. Onagr. 13.

Sphærostigma dentata. Walp. Rep. 2. 78. Gay, Fl. Chil. 2. 326.

Var. **cruciata.** Watson, l. c. 594. Brew. & Wats. l. c.

Œ. strigulosa. Benth. Pl. Hartw. 310.

Œ. Drummondii. Hook. Bot. Mag. **t. 3361** (Ann. Sci. Nat. 2. 5. 296). Spach, Monogr. Onagr. 28; Hist. Veg. 4. 356. Torr. & Gray, Fl. 1. 493. Dietr. 2. 1290. Walp. Rep. 2. 81. Torrey, Frem. Rep. 89. Engelm. & Gray, Pl. Lindh. 8. Gray, same, 189. Scheele, Roem. Texas, 430. Watson, Rev. Œnoth. 580. Young, Fl. Texas, 266.

? *Œ. sinuata*, var. *humifusa.* Gray, Proc. Am. Acad. 5. 158.

Œ. Fremonti. Watson, Rev. Œnoth. 587.

Œ. Wrightii. Torrey, Mex. Bound. 65, in part.

Œ. fruticosa. Linn. Spec. 346. Hill, Veg. Syst. 11, **t. 10, f. 3.** L'Her. Stirp. Nov. 2, **t. 5.** Walter, 129. Ait. Hort. Kew. 2. 4. Lam. Dict. 4. 550. Moench, Meth. 677. Willd. Spec. 2. 310. Persoon, 1. 400. Pursh, 262. Nutt. Genera, 1. 247. Elliott, 1. 442. Torrey, Fl. U. S. 389; Fl. N. Y. 1. 234. Spreng. Syst. 2. 229. Lehm. in Hook. Fl. Bor.-Am. 1. 212. Don, Mill. 2. 689. Beck, Bot. 118.

Hook. Bot. Mag. under t. 3545, excl. var. γ. Torr. & Gray, Fl. 1. 496. Chapman, 139. Gray, Struct. Bot. 419, f. **822–825**; Manual, 179. Watson, Rev. Œnoth. 583.

Œ. mollissima. Walter, 129.

Œ. Florida. Salisb. Prodr. 278.

Œ. tetragona. Roth, Cat. Bot. 2. 39; Beiträg. Bot. 1. 200; Ann. Bot. 2. 30. Hornem. Hort. Hafn. Suppl. 1. 44. Seringe, DC. Prodr. 3. 52. Don, Mill. 2. 690. Eat. & Wr. 332.

Œ. hybrida. Michx. Fl. 1. 225. Persoon, 1. 408. Pursh, 262. Poir. Suppl. 4. 143. Elliott, 1. 442. Spreng. Syst. 2. 229. Seringe, DC. Prodr 3. 50. Don, Mill. 2. 689. Beck, Bot. 119. Eat. & Wr. 331. Dietr 2. 1288.

Kneiffia suffruticosa & floribunda. Spach, Monogr Onagr. 45 & 46; Hist. Veg. 4. 374 & 376.

Œ. fruticosa, var. *Indica.* Lindl. Bot. Reg. 27, t. **11.**

Var. **linearis.** Watson, Rev. Œnoth. 584.

Œ. linearis. Michx. Fl. 1. 225. Persoon, 1. 409. Pursh, 262. Poir. Suppl. 4. 144. Elliott, 1. 444. Nutt. Genera, 1. 248. Spreng. Syst. 2. 230. Seringe, DC. Prodr. 3. 51. Don, Mill. 2. 689. Torr. & Gray, Fl. 1 497. Eat. & Wr. 332. Torrey, Fl. N. Y. 1. 235. Chapman, 139. Gray, Manual, 179, in part.

Œ. fruticosa, var. (?) *linearifolia.* Hook. Bot. Mag. under t. 3545.

? *Œ. media.* Link, Enum. 1. 377. Seringe, DC. Prodr. 3. 49. Don, Mill. 2. 686. Eat. & Wr. 332. Dietr. 2. 1286.

Œ. riparia. Nutt. Genera, 1. 247. Spreng. Syst. 2. 229. Seringe, DC. Prodr. 3. 52. Don, Mill. 2. 690. Torr. & Gray, Fl. 1. 497. Eat. & Wr. 331. Chapman, 139. Gray, Manual, 179.

Kneiffia angustifolia, & maculata? Spach, Monogr. Onagr. 46 & 47.

Onagra Linkiana. Spach, l. c. 34.

Kneiffia linearis. Spach, Hist. Veg. 4. 376.

Var. **ambigua.** Nutt. Genera, 1. 247. Torrey, Fl. U. S. 389. Hook. Bot. Mag. t. **3545.** Torr. & Gray, Fl. 1. 496. Watson, Rev. Œnoth. 584.

Œ. ambigua. Spreng. Syst. 2. 229. Seringe, DC. Prodr. 3. 50. Don, Mill. 2. 689. Beck, Bot. 118. Dietr. 2. 1289.

Œ. Canadensis. Goldie, Edinb. Phil. Journ. 6. 325. Seringe, DC. Prodr. 3. 52. Eat. & Wr. 331.

Var. **phyllopus.** Hook. Fl. Bor.-Am. 1. 212; Bot. Mag. under t. 3545. Torr. & Gray, Fl. 1. 496.

Œ. fruticosa. Sims, Bot. Mag. t. **332.**

Œ. serotina. D. Don in Sweet's Brit. Fl. Gard. 2 ser. t. **184.** Sweet, Hort. Brit. t. **152.** Lindl. Bot. Reg. 22, t. **1840.** Don, Mill. 2. 689.

Var. **incana.** Hook. ll. cc. Torr. & Gray, Fl. 1. 496.

Œ. incana. Nutt. Genera, 1. 247. Torrey, Fl. U. S. 389. Spreng. Syst. 2. 229. Seringe, DC. Prodr. 3. 52. Don, Mill. 2. 690. Beck, Bot. 119. Eat. & Wr. 331.

Var. **hirsuta.** Nutt.; Torr. & Gray, Fl. 1. 496.

Œ. pilosella. Raf. Ann. Nat. 15.

Var. **humifusa.** Allen, Torr. Bot. Bull. 1. 2. Watson, Rev. Œnoth. 584.

Œ. linearis, var. Torr. & Gray, Fl. 1. 497.

Œ. linearis. Gray, Manual, 179, in part.

Œ. gauræflora. Torr. & Gray, Fl. 1. 510. Torrey, Mex. Bound. 66. Gray, Ives's Rep. 12. Watson, Rev. Œnoth. 591. Brew. & Wats. Bot. Calif. 1. 227.

Gaura decorticans. Hook. & Arn. Bot. Beechey, 343.

Sphærostigma gauræflorum. Walp. Rep. 2. 78.

Œ. Nevadensis. Kellogg, Proc. Calif. Acad. 2. 224, f. **70.**

Œ. glauca. Michx. Fl. 1. 224. Persoon, 1. 408. Pursh in Sims, Bot. Mag. **t. 1606**; Fl. 262. Poir. Suppl. 4. 143. Nutt. Genera, 1. 247. Spreng. Syst. 2. 229. Seringe, DC. Prodr. 3. 50. Don, Mill. 2. 689. Lindl. Bot. Reg. 18, **t. 1511.** Torr. & Gray, Fl. 1. 497. Eat. & Wr. 332. Chapman, 138. Gray, Manual, 179. Watson, Rev. Œnoth. 584.

Kneiffia glauca. Spach, Monogr. Onagr. 45; Hist. Veg. 4. 374.

Var. **Fraseri.** Torr. & Gray, Fl. 1. 497.

Œ. Fraseri. Pursh in Sims, Bot. Mag. **t. 1674**; Fl. 734. Poir. Suppl. 5. 743. Elliott, 1. 443. Spreng. Syst. 2. 229. Seringe, DC. Prodr. 3. 51. Maund, Bot. Gard. 4, **t. 163.** Don, Mill. 2. 689. Eat. & Wr. 332. Dietr. 2. 1289.

Kneiffia Fraseri. Spach, Monogr. Onagr. 46; Hist. Veg. 4. 375.

Œ. fruticosa, var. *Fraseri.* Hook. Bot. Mag. under t. 3545.

Œ. graciliflora. Hook. & Arn. Bot. Beechey, 341. Torr. & Gray, Fl. 1. 507. Hook. Icon. **t. 338.** Walp. Rep. 2. 86. Benth. Pl. Hartw. 310. Bolander, Cat. 12. Watson, Rev. Œnoth. 589. Brew. & Wats. Bot. Calif. 1. 225.

Œ. Greggii. Gray, Pl. Fendl. 46; Pl. Wright. 1. 72. Walp. Ann. 2. 533. Watson, Rev. Œnoth. 590; Pl. Wheeler, 9.

Œ. Lampasana. Buckley, Proc. Acad. Philad. 1861, 454; referred to *Œ. Hartwegi*, var., by Gray, same, 1862, 163.

Œ. Guadalupensis. Watson, Proc. Am. Acad. 11. 116 & 137. Brew. & Wats. Bot. Calif. 1. 226. (Guadalupe Island.)

Œ. Hartwegi. Benth. Pl. Hartw. 5. Gray, Pl. Fendl. 46; Pl. Wright. 1. 72 & 2. 58. Torrey, Sitgr. Rep. 159; Mex. Bound. 66. Watson, Rev. Œnoth. 590.

Var. **lavandulæfolia.** Watson, l. c. Porter, Fl. Col. 44.

Œ. lavandulæfolia. Torr. & Gray, Fl. 1. 501; Pac. R. Rep. 2. 164. Walp. Rep. 2. 85. Gray, Pl. Fendl. 46; Pl. Wright. 1. 72 & 2. 58; Am. Journ. Sci. 2. 33. 405. Hook. in Lond. Journ. Bot. 6. 223. Torrey, Marcy's Rep. 285; Mex. Bound. 66. Engelm. Pl. Upp. Miss. 192.

Var. **Fendleri.** Gray, Pl. Wright. 1. 72 & 2. 58; Pl. Thurb. 300. Torr. & Gray, Pac. R. Rep. 2. 164. Watson, l. c.

Œ. Fendleri. Gray, Pl. Fendl. 45. Walp. Ann. 2. 533.

Œ. heterantha. Nutt. in Journ. Acad. Philad. 7. 22. Torr. & Gray, Fl. 1. 507. Eat. & Wr. 331. Walp. Rep. 2. 86. Gray, Pl. Fendl. 45; Pl. Wright. 1. 70. Watson, King's Rep. 5. 110; Rev. Œnoth. 589; Pl. Wheeler, 9. Porter, Hayd. Rep. 1871, 483. Coulter, same, 1872, 767. Torrey, Bot. Wilkes, 298. Brew. & Wats. Bot. Calif. 1. 224.

Jussiæa subacaulis. Pursh, 304. Poir. Suppl. 5. 713. Spreng. Syst. 2. 230. Don, Mill. 2. 692. Eat. & Wr. 289.

Œ. triloba. Hook. in Lond. Journ. Bot. 6. 223.

Var. (?) **taraxacifolia.** Watson, Rev. Œnoth. 589. Brew. & Wats. l. c. 225.

Œ. heterophylla. Spach, Monogr. Onagr. 28. Walp. Rep. 2. 81. Watson, Rev. Œnoth. 580.

Œ. bifrons. D. Don in Sweet, Brit. Fl. Gard. 2 ser. **t. 386.** Hook. Bot. Mag. **t. 3764.** Torr. & Gray, Fl. 1. 492. Dietr. 2. 1290. Walp. Rep. 2. 81. Gray, Pl. Wright. 1. 69; Hall's Pl. Texas, 9. Young, Fl. Texas, 266.

Œ. rhombipetala. Engelm. & Gray, Pl. Lindh. 8. Dur. & Hilg. in Pac. R. Rep. 5. 7.

Œ. Leona. Buckley, Proc. Acad. Philad. 1861, 163; fide Gray, same, 1862, 163.

Œ. humifusa. Nutt. Genera, 1. 245. Spreng. Syst. 2. 228. Seringe, DC. Prodr. 3. 47. Don, Mill. 2. 687. Spach, Monogr. Onagr. 30. Eat. & Wr. 332. Watson, Rev. Œnoth. 580.

Œ. sinuata, var. *humifusa*. Torr. & Gray, Fl. 1. 494. Chapman, 138. A. H. Smith, Proc. Acad. Philad. 1867, 19.

Œ. Jamesii. Torr. & Gray, Fl. 1. 493. Walp. Rep. 2. 81. Gray, Pl. Lindh. 189; Pl. Wright. 1. 69. Torrey, Sitgr. Rep. 175; Pac. R. Rep. 4. 86; Mex. Bound. 65. Watson, Rev. Œnoth. 579.

Œ. Johnsoni. Watson, Am. Naturalist, 9. 270. Parry, same, 9. 18.

Œ. linifolia. Nutt. in Journ. Acad. Philad. 2. 120 (Litt.-Ber. zu Linnæa, 1829, 40). Seringe, DC. Prodr. 3. 50. Don, Mill. 2. 690. Torr. & Gray, Fl. 1. 499. Eat. & Wr. 332. Dietr. 2. 1288. Engelm. & Gray, Pl. Lindh. 8. Chapman, 139. Gray, Hall's Pl. Texas, 9. Young, Fl. Texas, 268. Watson, Rev. Œnoth. 583.

Kneiffia linifolia. Spach, Monogr. Onagr. 48.

Œ. macrosceles. Gray, Pl. Fendl. 43. Walp. Ann. 2. 533. Watson, l. c. 588. (Northern Mexico.)

Œ. micrantha. Hornem. Hort. Hafn. Suppl. Spreng. Syst. 2. 228. Hook. & Arn. Bot. Beechey, 341. Torr. & Gray, Fl. 1. 509. Watson, Rev. Œnoth. 593. Brew. & Wats. Bot. Calif. 1. 226.

Œ. dentata. Seringe, DC. Prodr. 3. 46, in part.

Œ. hirta. Link, Enum. 1. 378. Don, Mill. 2. 684.

Sphærostigma micranthum. Walp. Rep. 2. 77.

Œ. cheiranthifolia, & *strigulosa* in part. Torrey, Pac. R. Rep. 4. 87.

Œ. bistorta. Gray, Proc. Bost. Soc. Nat. Hist. 7. 146.

Œ. Missouriensis. Sims, Bot. Mag. **t. 1592**, & under t. 1674. Don, Mill. 2. 689. Torr. & Gray, Fl. 1. 500; Pac. R. Rep. 2. 164. Torrey, Frem. Rep. 89 & 315; Pac. R. Rep. 4. 86; Mex. Bound. 65, in part. Gray, Pl. Lindh. 188; Pl. Wright. 1. 70; Proc. Acad. Philad. 1863, 61; Hall's Pl. Texas, 9. Engelm. in Wisliz. Rep. 3. Burnett, Encyc. Pl. 2, **t. 198**. Wood, Cl.-Book, 353; Bot. & Fl. 126. Watson, Rev. Œnoth. 587. Porter, Fl. Col. 45.

Megapterium Missouriense. Spach, Monogr. Onagr. 31; Hist. Veg. 4. 364.

Œ. Drummondii. Hook. in Lond. Journ. Bot. 6. 221.

Var. **latifolium.** Gray, Pl. Lindh. 188.

Œ. macrocarpa. Pursh, 734. Poir. Suppl. 5. 743. Bradbury, Cat. 336. James, Long's Exped. 2. 324. Maund, Bot. Gard. 1, **t. 41**. Torrey, Ann. Lyc. N. Y. 2. 201. Sweet, Brit. Fl. Gard. **t. 5**. Spreng. Syst. 2. 229. Seringe, DC. Prodr. 3. 47. Don, Mill. 2. 689. Eat. & Wr. 332. Dietr. 2. 1286. Scheele, Roem. Texas, 430. Rev. Hort. 6. 597, **f. 182**.

Œ. alata. Nutt. Genera, 1. 248. James, Cat. 180.

Megapterium Nuttallii. Spach, Monogr. Onagr. 31; Hist. Veg. 4. 364.

Var. **incana.** Gray, Pl. Lindh. 189. Torrey, Pac. R. Rep. 4. 86.

Œ. multijuga. Watson, Am. Naturalist, 7. 300; Rev. Œnoth. 595.

Œ. Nuttallii. Torr. & Gray, Fl. 1. 506. Walp. Rep. 2. 86. Watson, King's Rep. 5. 110; Rev. Œnoth. 589. Brew. & Wats. Bot. Calif. 1. 224.

Œ. tanacetifolia. Torr. & Gray, Pac. R. Rep. 2. 121, **t. 4** (Regensb. Flora, 41. 622). Newberry, Pac. R. Rep. 6. 74. Anderson, Cat. Pl. Nev. 120. Watson, King's Rep. 5. 110; Pl. Wheeler, 9.

Œ. Oakesiana. Robbins, in herb.

Œ. biennis, var. *Oakesiana*. Gray, Manual, 178. Watson, Rev. Œnoth. 579.

Œ. ovata. Nutt.; Torr. & Gray, Fl. 1. 507. Walp. Rep. 2. 86. Benth. Pl. Hartw. 310. Torrey, Pac. R. Rep. 4. 87. Boland. Cat. 12. Watson, Rev. Œnoth. 580. Brew. & Wats. Bot. Calif. 1. 225.

Œ. Palmeri. Watson, Proc. Am. Acad. 12. 251.

Œ. Parryi. Watson, Am. Naturalist, 9. 270. Parry, same, 9. 20.

Œ. pinnatifida. Nutt. Genera, 1. 245. James, Cat. 179. Spreng. Syst. 2. 229. Torr. & Gray, Fl. 1. 494. Eat. & Wr. 332. Dietr. 2. 1289. Walp. Rep. 2. 79. Torrey, Nicol. Rep. 150. Nees, Pl. Neuwied, 9. Gray, Pl. Fendl. 43; Am. Journ. Sci. 2. 34. 333; Proc. Acad. Philad. 1863, 61. Hook. in Lond. Journ. Bot. 6. 221. Engelm. Pl. Upp. Miss. 191; Am. Journ. Sci. 2. 34. 333. Porter, Hayd. Rep. 1870, 476; Fl. Col. 44. Watson, Rev. Œnoth. 581. Rothr. Pl. Wheeler, 40.

Œ. albicaulis. Pursh, 733; not Nutt. Poir. Suppl. 5. 743. Seringe, DC. Prodr. 3. 51. Torrey, Mex. Bound. 65. Gray, Ives's Rep. 11; Am. Journ. Sci. 2. 33. 405, in part.

Baumannia pinnatifida. Spach, Hist. Veg. 4. 353.

Œ. Purshii. Don, Mill. 2. 688.

Œ. coronopifolia. Gray, Pl. Wright. 2. 56.

Œ. primiveris. Gray, Pl. Wright. 2. 58; Pl. Thurb. 298; Ives's Rep. 11. Walp. Ann. 4. 677. Torrey, Mex. Bound. 65. Watson, Rev. Œnoth. 586.

Œ. pterosperma. Watson, King's Rep. 5. 112, **t. 14**; Rev. Œnoth. 595. Brew. & Wats. Bot. Calif. 1. 228.

Œ. pumila. Linn. Spec. 2 ed. 493. Hill, Veg. Syst. 11, **t. 10, f. 4.** Ait. Hort. Kew. 2. 4. Lam. Dict. 4. 553. Curtis, Bot. Mag. **t. 355.** Willd. Spec. 2. 310. Persoon, 1. 409. Pursh, 262. Bigel. Fl. Bost. 91. Elliott, 1. 444. Torrey, Fl. U. S. 390; Fl. N. Y. 1. 236. Maund, Bot. Gard. 1, **t. 35.** Spreng. Syst. 2. 230. Lehm. in Hook. Fl. Bor.-Am. 1. 212. Don, Mill. 2. 689. Beck, Bot. 119. Torr. & Gray, Fl. 1. 498. Eat. & Wr. 331. Chapman, 139. Pl. Bourgeau, 256. Gray, Manual, 179. Watson, Rev. Œnoth. 583.

Œ. pusilla. Michx. Fl. 1. 225. Persoon, 1. 409. Pursh, 263. Poir. Suppl. 4. 144. Nutt. Genera, 1. 248. Torrey, Fl. U. S. 390. Spreng. Syst. 2. 230. Seringe, DC. Prodr. 3. 51. Don, Mill. 2. 690. Beck, Bot. 119. Eat. & Wr. 331.

Œ. chrysantha. Michx. Fl. 1. 225. Persoon, 1. 409. Pursh, 263. Poir. Suppl. 4. 144. Elliott, 1. 444. Torrey, Fl. U. S. 390; Fl. N. Y. 1. 235. Spreng. Syst. 2. 229. Don, Mill. 2. 690. Beck, Bot. 119. Torr. & Gray, Fl. 1. 498. Eat. & Wr. 331. Matthew, Fl. Acad. 20. Gray, Manual, 179.

Œ. gracilis. Schrader, Ind. Sem. Gœtt.

Œ. riparia. Lehm. in Hook. Fl. Bor.-Am. 1. 212.

Kneiffia pumila & *chrysantha.* Spach, Monogr. Onagr. 47 & 48, excl. vars.

Œ. rhombipetala. Nutt.; Torr. & Gray, Fl. 1. 493. Walp. Rep. 2. 81. Torrey, Frem. Rep. 89; Marcy's Rep. 285; Sitgr. Rep. 175. Kunze, Linnæa, 20. 57; Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 192. Gray, Manual, 178. Watson, Rev. Œnoth. 580.

Œ. rosea. Ait. Hort. Kew. 2. 3. Meerburgh, Pl. Sel. **t. 17.** Curtis, Bot. Mag. **t. 347.** Seringe, DC. Prodr. 3. 51. Don, Mill. 2. 689. Gray, Pl. Wright. 2. 57. Torrey, Mex. Bound. 65. Watson, Rev. Œnoth. 585.

Œ. rubra. Cav. Icon. 4. 68, **t. 400.**

Œ. purpurea. Lam. Dict. 4. 554.

Hartmannia gauroides. Spach, Monogr. Onagr. 41; Hist. Veg. 4. 371.

Œ. scapoidea. Nutt.; Torr. & Gray, Fl. 1. 506. Walp. Rep. 2. 86. Hook. in Lond. Journ. Bot. 6. 224. Torrey, Stansb. Rep. 387, in part. Durand, Fl. Utah,

164. Watson, King's Rep. 5. 109; Rev. Œnoth. 594. Coulter, Hayd. Rep. 1872, 767. Brandegee, Fl. S. W. Col. 236. Brew. & Wats. Bot. Calif. 1. 227.

Var. **purpurascens.** Watson, Rev. Œnoth. 595; Pl. Wheeler, 9. Brew. & Wats. l. c.

Œ. clavæformis. Torr. & Gray, Pac. R. Rep. 2. 121.

Œ. cruciformis. Kellogg, Proc. Calif. Acad. 2. 227, **f. 71.**

Œ. scapoidea, var. *clavæformis.* Watson, King's Rep. 5. 109.

Var. **aurantiaca.** Watson, Rev. Œnoth. 595. Brew. & Wats. l. c.

Œ. clavæformis. Torrey, Frem. Rep. 314 (Bot. Zeit. 5. 42); Pac. R. Rep. 4. 86 & 5. 300; Mex. Bound. 66, in part. Walp. Ann. 1. 291. Gray, Ives's Rep. 12. Anderson, Cat. Pl. Nev. 120.

Œ. serrulata. Nutt. Genera, 1. 246. James, Cat. 180. Torrey, Ann. Lyc. N. Y. 2. 201; Nicol. Rep. 150; Frem. Rep. 89; Marcy's Rep. 285; Pac. R. Rep. 4. 86; Mex. Bound. 65. Sweet, Brit. Fl. Gard. **t. 133.** Spreng. Syst. 2. 228. Seringe, DC. Prodr. 3. 49. Maund, Bot. Gard. 7, **t. 330.** Don, Mill. 2. 687. Torr. & Gray, Fl. 1. 501; Pac. R. Rep. 2. 164. Eat. & Wr. 332. Dietr. 2. 1286. Engelm. in Wisliz. Rep. 3; Pl. Upp. Miss. 191. Parry, Pl. Minn. 612. Gray, Pac. R. Rep. 12. 43; Proc. Acad. Philad. 1863, 61; Manual, 179. Pl. Bourgeau, 256. Porter, Hayd. Rep. 1870, 476; Fl. Col. 46. Watson, Rev. Œnoth. 590.

Calylophis Nuttallii. Spach, Monogr. Onagr. 17; Hist. Veg. 4. 350.

Œ. fruticosa. Gray, Pl. Fendl. 44.

Meriolix serrulata. Walp. Rep. 2. 79; Ann. 2. 532.

Var. **pinifolia.** Engelm.; Gray, Pl. Lindh. 189; Hall's Pl. Texas, 9. Watson, Rev. Œnoth. 591.

Œ. capillifolia. Scheele, Linnæa, 21. 576.

Var. **spinulosa.** Torr. & Gray, Fl. 1. 502. Engelm. & Gray, Pl. Lindh. 36. Gray, same, 189; Pl. Wright. 1. 71; Hall's Pl. Texas, 9. Scheele, Roem. Texas, 430. Watson, l. c.

Œ. serrulata. Nutt. in Journ. Acad. Philad. 2. 120 (Litt.-Ber. zu Linnæa, 1829, 40). Hook. Exot. Fl. **t. 140.**

Var. **Douglasii.** Torr. & Gray, Fl. 1. 502; Pac. R. Rep. 2. 126. Gray, Pl. Fendl. 45. Hook. in Lond. Journ. Bot. 6. 224.

Œ. leucocarpa. Lehm. in Hook. Fl. Bor.-Am. 1. 210; Nov. Stirp. Pug. 2. 17. Don, Mill. 2. 687. Eat. & Wr. 330. Dietr. 2. 1287.

Var. **Drummondii.** Torr. & Gray, Fl. 1. 502.

Calylophis Drummondiana, & *Berlandieri*? Spach, Monogr. Onagr. 18.

Meriolix Berlandieri. Walp. Rep. 2. 79.

Œ. spinulosa, var. *Drummondii.* Engelm. Pl. Upp. Miss. 192.

Œ. sinuata. Linn. Mant. 228. Murray, Nov. Com. Gœtt. 5. 44, **t. 9.** Ait. Hort. Kew. 2. 3. Lam. Dict. 4. 553. Willd. Spec. 2. 309. Michx. Fl. 1. 224. Persoon, 1. 408. Pursh, 261. Elliott, 1. 443. Torrey, Fl. U. S. 388; Marcy's Rep. 285; Mex. Bound. 65. Spreng. Syst. 2. 227. Beck, Am. Journ. Sci. 10. 180. Don, Mill. 2. 686. Spach, Monogr. Onagr. 29. Hook. Comp. Bot. Mag. 1. 25. Torr. & Gray, Fl. 1. 494; Pac. R. Rep. 2. 164. Eat. & Wr. 331. Benth. Pl. Hartw. 6. Scheele, Roem. Texas, 431. Lesq. Fl. Ark. 360. Chapman, 138. Gray, Manual, 178; Hall's Pl. Texas, 9, in part. Watson, Rev. Œnoth. 581.

Œ. laciniata. Hill, Syst. Veg. 12, Suppl. **t. 10**; Hort. Kew. 172[4], **t. 6.**

Œ. biennis. Walter, 129.

Œ. repanda. Medicus, Act. Palat. 3. 198, **t. 8.**

Onagra sinuata. Moench, Meth. 676.

Œ. prostrata. Ruiz & Pav. Fl. Peruv. 3. 79, **t. 315**. Seringe, DC. Prodr. 3. 48.
? *Œ. viscosa.* Raf. Fl. Lud. 96. Don, Mill. 2. 687. Eat. & Wr. 332.

Var. **minima.** Nutt. Genera, 1. 245. Beck, Bot. 118. Hook. Bot. Mag. **t. 3392**; Lond. Journ. Bot. 6. 221. Watson, l. c.
Œ. minima. Pursh, Flora, 262, **t. 15.** Poir. Suppl. 5. 743. Spreng. Syst. 2. 228. Seringe, DC. Prodr. 3. 49. Don, Mill. 2. 687. Spach, Monogr. Onagr. 29.

Var. **hirsuta.** Torr. & Gray, Fl. 1. 494. Gray, Pl. Fendl. 43; Hall's Pl. Texas, 9. Watson, l. c.
Œ. Mexicana. Spach, Monagr. Onagr. 27. Walp. Rep. 2. 81.

Var. **grandiflora.** Watson, l. c.
? *Œ. longiflora.* Scheele, Roem. Texas, 430.
Œ. sinuata. Gray, Hall's Pl. Texas, 9, in part.

Œ. Spachiana. Torr. & Gray, Fl. 1. 498; Pac. R. Rep. 2. 164. Walp. Rep. 2. 84. Gray, Pl. Wright. 1. 70; Hall's Pl. Texas, 9. Watson, Rev. Œnoth. 583. Young, Fl. Texas, 267.
Blennoderma Drummondii. Spach, Monogr. Onagr. 86.
Œ. Drummondii. Walp. Rep. 2. 85.
? *Œ. uncinata.* Scheele, Linnæa, 21. 578. Gray, Pl. Lindh. 190. Walp. Ann. 2. 533.

Œ. speciosa. Nutt. in Journ. Acad. Philad. 2. 119 (Litt.-Ber. zu Linnæa, 1829, 40). Hook. Exot. Fl. 2, **t. 80**; Bot. Mag. **t. 3189**. Spreng. Syst. 2. 230. Seringe, DC. Prodr. 3. 50. D. Don in Sweet, Brit. Fl. Gard. **t. 253**. Maund, Bot. Gard. 8, **t. 339.** Don, Mill. 2. 688. Torr. & Gray, Fl. 1. 496; Pac. R. Rep. 2. 126 & 164. Eat. & Wr. 332. Dietr. 2. 1289. Walp. Rep. 2. 85. Torrey, Frem. Rep. 89; Marcy's Rep. 285; Pac. R. Rep. 4. 86. Gray, Pl. Fendl. 44; Pl. Lindh. 189; Pl. Wright. 1. 70; Hall's Pl. Texas, 9. Engelm. & Gray, Pl. Lindh. 8 & 31. Engelm. in Wisliz. Rep. 3. Scheele, Roem. Texas, 431. Wood, Bot. & Fl. 126. Watson, Rev. Œnoth. 585. Young, Fl. Texas, 267.
Xylopleurum hirsutum, Drummondii & obtusifolium. Spach, Monogr. Onagr. 50-52.
Xylopleurum Nuttallii. Spach, l. c. 51; Hist. Veg. 4. 378.
Œ. Spachii & obtusifolia. Dietr. 2. 1289.
Œ. Drummondii. Schnitzlein, Iconogr. **t. 265, f. 1.**

Œ. strigulosa. Torr. & Gray, Fl. 1. 512. Dietr. 2. 1284. Torrey, Pac. R. Rep. 4. 87, in part, & 7. 11 ?; Bot. Wilkes, 298. Anderson, Cat. Pl. Nev. 120. Watson, Rev. Œnoth. 594. Brew. & Wats. Bot. Calif. 1. 226.
Sphærostigma strigulosum. Fisch. & Mey. in Ind. Sem. Petrop. 2. 25 (Ann. Sci. Nat. 2. 5. 187; Litt.-Ber. zu Linnæa, 1837, 120; Hook. Comp. Bot. Mag. 2. 9). Walp. Rep. 2. 79.
Œ. contorta. Dougl.; Lehm. in Hook. Fl. Bor.-Am. 1. 214. Don, Mill. 2. 685. Spach, Monogr. Onagr. 16. Torr. & Gray, Fl. 1. 511. Eat. & Wr. 332. Dietr. 2. 1285. Hook. in Lond. Journ. Bot. 6. 224 ? Torrey, Bot. Wilkes, 298.
Œ. parvula. Nutt., Torr. & Gray, Fl. 1. 511.
Sphærostigma contortum & parvulum. Walp. Rep. 2. 78.

Var. **pubens.** Watson, l. c. Brew. & Wats. Bot. Calif. 1. 226.
Œ. dentata. Watson, King's Rep. 5. 111.

Œ. trichocalyx. Nutt.; Torr. & Gray, Fl. 1. 494. Walp. Rep. 2. 80. Torrey, Frem. Rep. 89. Hook. in Lond. Journ. Bot. 6. 222. Gray, Pl. Wright. 2. 56. Newberry, Pac. R. Rep. 6. 74. Anderson, Cat. Pl. Nev. 120. Watson, Rev. Œnoth. 581. Brew. & Wats. Bot. Calif. 1. 224.

Œ. deltoidea. Torrey, Frem. Rep. 315 (Bot. Zeit. 5. 42). Walp. Ann. 1. 291. Watson, King's Rep. 5. 107.

Œ. albicaulis, var. *trichocalyx.* Engelm. in Am. Journ. Sci. 2. 33. 335. Watson, Rev. Œnoth. 582.

Œ. triloba. Nutt. in Journ. Acad. Philad. 2. 118 (Litt.-Ber. zu Linnæa, 1829, 40). Barton, Fl. N. Am. 2. 37, **t. 49.** Sims, Bot. Mag. **t. 2566.** Seringe, DC. Prodr. 3. 49. Reichenb. Hort. Bot. 2. 18, **t. 145.** Don, Mill. 2. 689. Torr. & Gray, Fl. 1. 499; Pac. R. Rep. 2. 164. Eat. & Wr. 332. Dietr. 2. 1288. Gray, Pl. Lindh. 180; Pl. Wright. 1. 70 & 2. 58; Proc. Acad. Philad. 1863, 61. Torrey, Mex. Bound 65. Pl. Bourgeau, 256. Watson, King's Rep. 5. 107; Rev. Œnoth. 586. Coulter, Hayd. Rep. 1872, 767. Porter, Fl. Col. 44. Rothr. Pl. Wheeler, 40. Brew. & Wats. Bot. Calif. 1. 224.

Œ. rhizocarpa. Spreng. Syst. 2. 230. Seringe, DC. Prodr. 3. 50. Dietr. 2. 1288.

Lavauxia Nuttalliana. Spach, l. c. 38, **t. 31, f. 1**; Hist. Veg. 4. 367, **t. 85, f. 1.**

Lavauxia triloba. Spach, Hist. Veg. 4. 367.

Œ. Ræmeriana. Scheele, Linnæa, 22. 154. Walp. Ann. 2. 533.

Œ. tubicula. Gray, Pl. Wright. 1. 71 & 2. 58. Torr. & Gray, Pac. R. Rep. 2. 164. Torrey, Mex. Bound. 66. Walp. Ann. 4. 676. Watson, Rev. Œnoth. 590.

Œ. Wrightii. Gray, Pl. Wright. 2. 57; Pl. Thurb. 300. Torr. & Gray, l. c. Torrey, Mex. Bound. 65, in part. Walp. Ann. 4. 676. Watson, Rev. Œnoth. 586.

Œ. alata; Missouriensis, Jussiæa decurrens.
albescens; Godetia albescens.
albicaulis; Californica, pinnatifida, trichocalyx.
ambigua; fruticosa.
amœna & *arcuata*; Godetia amœna.
Arnottii; Godetia lepida.
biennis; Oakesiana, sinuata.
bifrons; heterophylla, G. amœna.
biloba; Godetia biloba.
bistorta; micrantha.
Bottæ & *Californica*; Godetia Bottæ.
Canadensis; fruticosa.
capillifolia; serrulata.
cheiranthifolia; bistorta, micrantha.
chrysantha; pumila.
clavæformis; brevipes, scapoidea.
contorta; cheiranthifolia, strigulosa.
coronopifolia: pinnatifida.
cruciata; biennis.
cruciformis; scapoidea.
decumbens; Godetia lepida.
deltoidea; trichocalyx.
densiflora; Godetia lepida, Boisduvallia densiflora & Torreyi.
dentata; micrantha, strigulosa.
Drummondii; Missouriensis, Spachiana, speciosa.
Œ. epilobioides; Godetia epilobioides.
eximia; cæspitosa.
Fendleri; Hartwegi.
Florida; fruticosa.
Fraseri; glauca.
fruticosa; glauca, serrulata.
gauroides; biennis.
glabella; Boisduvallia glabella.
gracilliflora; bistorta.
gracilis; pumila.
grandiflora; biennis, Godetia grandiflora.
guttulata; canescens.
Hartwegi; Greggii.
hirta; micrantha.
hispidula; Godetia hispidula.
Hookeri; biennis.
humilis; Godetia purpurea.
hybrida & *incana*; fruticosa.
laciniata; sinuata.
Lamarckiana; biennis.
Lampasana; Greggii.
lavandulæfolia; Hartwegi.
Leona; heterophylla.
lepida; Godetia lepida.
leucocarpa; serrulata.
Lindleyi; Godetia amœna.
linearis; fruticosa.
longiflora; sinuata.

Œ. macrocarpa; Missouriensis.
marginata; brachycarpa, cæspitosa.
media; fruticosa.
Mexicana & minima; sinuata.
mollissima; fruticosa.
montana; cæspitosa.
muricata; biennis.
Nevadensis; gauræflora.
Nuttallii; albicaulis, breviflora.
obtusifolia; speciosa.
odorata; biennis.
pallida; albicaulis.
paludosa; Jussiæa decurrens.
parviflora; biennis.
parvula; strigulosa.
pilosella; fruticosa.
pinnatifida; albicaulis, coronopifolia.
prostrata; sinuata.
pubescens; biennis.
purpurea; rosea, Godetia albescens, lepida, purpurea, quadrivulnera & tenella.
Purshiana; pinnatifida.
pusilla; pumila.
pygmæa; Boothii.
quadrivulnera; G. quadrivulnera.
repanda; sinuata.
rhizocarpa; triloba.
rhombipetala; heterophylla.
riparia; fruticosa, pumila.
Œ. Rœmeriana; triloba.
Romanzovii; Godetia Romanzovii.
roseo-alba; Godetia amœna.
rubicunda; Godetia amœna, Bottæ, epilobioides & hispidula.
rubra; rosea.
scapigera; cæspitosa.
serotina; fruticosa.
sinuata; Drummondii, humifusa.
Spachii; speciosa.
spinulosa; serrulata.
spiralis; cheiranthifolia.
strigulosa; dentata, micrantha.
suaveolens; biennis.
tanacetifolia; Nuttallii.
tenella; Godetia biloba, Bottæ, epilobioides, quadrivulnera, tenella & viminea.
tetragona; fruticosa.
Torreyi; Boisduvallia Torreyi.
triloba; heterantha.
uncinata; Spachiana.
viminea; Godetia epilobioides, lepida, quadrivulnera, tenella & viminea.
vinosa; G. amœna & epilobioides.
viridescens; cheiranthifolia.
viscosa; sinuata.
Whitneyi; Godetia grandiflora.
Williamsonii; Godetia Williamsonii.
Wrightii; Fremontii.

STENOSIPHON virgatum. Spach, Monogr. Onagr. 64. Torr. & Gray, Fl. 1. 520; Pac. R. Rep. 2. 126. Torrey, Frem. Rep. 315; Pac. R. Rep. 4. 87; Mex. Bound. 66. Engelm. & Gray, Pl. Lindh. 37. Walp. Rep. 2. 670. Gray, Pl. Fendl. 47; Am. Journ. Sci. 2. 33. 405. Porter, Fl. Col. 44.

Gaura linifolia. Nutt. in Long's Exped. 2. 355. Torrey, Ann. Lyc. N. Y. 2. 200. DC. Prodr. 3. 45. Hook. Comp. Bot. Mag. 1. 25. Don, Mill. 2. 683. Eat. & Wr. 251. Dietr. 2. 1297.

ZAUSCHNERIA Californica. Presl, Rel. Haenk. 2. 28, **t. 52.** Spach, Hist. Veg. 4. 400. Hook. & Arn. Bot. Beechey, 140 & 340. Torr. & Gray, Fl. 1. 486. Walp. Rep. 2. 93. Benth. Bot. Sulph. 15; Pl. Hartw. 310. Lindl. in Journ. Hort. Soc. 3. 241, **fig.** Fl. Serres, 4. 404, **t.** Ann. Gand, 1848 . **224.** Torrey, Emory's Rep. 140; Pac. R. Rep. 7. 11; Mex. Bound. 65; Bot. Wilkes, 296. Paxton, Bot. Mag. 15. 195, **t.** Hook. Bot. Mag. **t. 4493.** Durand, Pl. Pratten. 87. Gray, Pl. Wright. 2. 56 (with var.); Ives's Rep. 12; Proc. Bost. Soc. Nat. Hist. 7. 146. Dur. & Hilg. in Pac. R. Rep. 5. 7. Wood, Bot. & Fl. 125. Boland. Cat. 12. Watson, King's Rep. 5. 104; Pl. Wheeler, 9. Coulter, Hayd. Rep. 1872, 767. Regel, Gartenfl. 1872, 239. Brew. & Wats. Bot. Calif. 1. 218.

Z. Mexicana. Presl. l. c. Walp. l. c.

Var. **microphylla.** Gray; Brew. & Wats. Bot. Calif. 1. 218.

LOASACEÆ.

CEVALLIA sinuata. Lagasca, Var. Sienc. Ann. 2. 141; Nov. Gen. & Spec. 11, t. **1**. Roem. & Schult. Syst. 5. 589. Spreng. Syst. 1. 832. Hook. Icon. t. **252**. Torr. & Gray, Fl. 1. 536 & 696. Fenzl, Darst. vier Gatt. 37, t. **4** (Regensb. Denksch. 3. 188). Torrey, Emory's Rep. 141; Mex. Bound. 66. Engelm. in Wisliz. Rep. 17. Gray, Pl. Wright. 1. 74 & 2. 59.

Petalanthera hispida. Nutt. in Journ. Acad. Philad. 7. 107.

EUCNIDE bartonioides. Zuccarini, Abhandl. Baier. Acad. 4². 5, t. **1**; Del. Sem. Hort. Monac. 1844 (Linnæa, 18. 509). Gray, Pl. Lindh. 191; Pl. Wright. 2. 59; Ives's Rep. 12. Torrey, Mex. Bound. 67. — The genus carried to *Mentzelia* by Benth. & Hook. Gen. Pl. 1. 804.

Microsperma bartonioides. Walp. Rep. 5. 777. Hook. Bot. Mag. t. **4491**.

E. lobata. Gray, Pl. Lindh. 192.

Microsperma lobata. Hook. Icon. t. **234**. Walp. Rep. 5. 777.

? *Microsperma rudis.* Schauer, Linnæa, 20. 721. Walp. Ann. 1. 320.

E. urens. Parry, Am. Naturalist, 9. 144. Brew. & Wats. Bot. Calif. 1. 237.

E. lobata. Torrey, Pac. R. Rep. 4. 53.

Mentzelia urens. Gray, Proc. Am. Acad. 10. 71; Am. Naturalist, 9. 271.

MENTZELIA adherens. Benth. Bot. Sulph. 15. Walp. Rep. 5. 776. (Lower California).

M. albicaulis. Dougl.; Don, Mill. 3. 61. Torr. & Gray, Fl. 1. 534. Walp. Rep. 2. 224. Gray, Pl. Wright. 2. 59; Ives's Rep. 12; Am. Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 61, in part; Proc. Bost. Soc. Nat. Hist. 7. 146; Proc. Am. Acad. 11. 137. Torrey, Stansb. Rep. 388; Pac. R. Rep. 4. 89 & 5. 360; Mex. Bound. 67, in part; Bot. Wilkes, 301. Durand, Fl. Utah, 164. Anderson, Cat. Pl. Nev. 121. Watson, King's Rep. 5. 113, excl. vars.; Pl. Wheeler, 9. Porter, Hayd. Rep. 1871, 483; Fl. Col. 47. Rothr. Pl. Wheeler, 40. Brew. & Wats. Bot. Calif. 1. 235.

Bartonia albicaulis. Hook. Fl. Bor.-Am. 1. 222; Lond. Journ. Bot. 6. 227. Eat. & Wr. 155.

M. Veatchiana. Kellogg, Proc. Calif. Acad. 2. 99, f. **28**.

M. aspera. Linn. Spec. 516. Willd. Spec. 2. 1175 & syn. Ait. f. Hort. Kew. 3. 302. Spreng. Syst. 2. 601. DC. Prodr. 3. 343. Gray, Proc. Am. Acad. 5. 158 & 180. Griseb. Fl. Brit. W. Ind. 298. Brew. & Wats. Bot. Calif. 1. 235.

M. albicaulis. Torrey, Mex. Bound. 67, in part.

M. congesta. Torr. & Gray, Fl. 1. 534. Walp. Rep. 2. 224. Dietr. 3. 85. Watson, King's Rep. 5. 114. Brew. & Wats. Bot. Calif. 1. 236.

M. cordata. Kellogg, Proc. Calif. Acad. 2. 33. (Lower California.)

M. dispersa. Watson, Proc. Am. Acad. 11. 115 & 137. Brew. & Wats. Bot. Calif. 1. 236.

Bartonia micrantha. Hook. in Lond. Journ. Bot. 6. 227.

M. albicaulis. Gray, Pl. Wright. 1. 74; Proc. Acad. Philad. 1863, 61, in part. Boland. Cat. 12.

M. albicaulis, var. *integrifolia.* Watson, King's Rep. 5. 114. Coulter, Hayd. Rep. 1872, 767.

M. Floridana. Nutt.; Torr. & Gray, Fl. 1. 533. Walp. Rep. 2. 223. Dietr. 3. 85. Chapman, 146. Wood, Bot. & Fl. 128.

M. gracilenta. Torr. & Gray, Fl. 1. 534. Walp. Rep. 2. 224. Dietr. 3. 85. Brew. & Wats. Bot. Calif. 1. 236.

M. pectinata. Kellogg, Proc. Calif. Acad. 3. 40, **f. 9.**

M. albicaulis, var. *gracilenta.* Watson, King's Rep. 5. 114.

M. hirsutissima. Watson, Proc. Am. Acad. 12. 252. (Lower California.)

M. lævicaulis. Torr. & Gray, Fl. 1. 535. Gray, Pl. Fendl. 47; Pl. Wright. 1. 73; Ives's Rep. 12; Proc Am. Acad. 8. 384. Durand, Pl. Pratten. 88. Dur. & Hilg. Pac. R. Rep. 5. 8. Cooper, same, 12. 52. Anderson, Cat. Pl. Nev. 121. Boland. Cat. 12. Watson, King's Rep. 5. 114; Pl. Wheeler, 9. Porter, Hayd. Rep. 1871, 483. Coulter, same, 1872, 767. Torrey, Bot. Wilkes, 311. Brew. & Wats. Bot. Calif. 237.

Bartonia lævicaulis. Dougl.; Hook. Fl. Bor.-Am. 1. 221, **t. 69.** Don, Mill. 3. 61. Nutt. in Journ. Acad. Philad. 7. 23. Hook. & Arn. Bot. Beechey, 343. Eat. & Wr. 154. Walp. Rep. 2. 224. Dietr. 3. 87.

Bartonia parviflora. Dougl.; Hook. Fl. Bor.-Am. 1. 221. Don, Mill. 3. 61. Eat. & Wr. 155.

Bartonia ornata. Hook. in Lond. Journ. Bot. 6. 226.

M. ornata. Torrey, Stansb. Rep. 387. Durand, Fl. Utah, 164.

M. Lindleyi. Torr. & Gray, Fl. 1. 533. Walp. Rep. 2. 224. Dietr. 3. 85. Torrey, Pac. R. Rep. 4. 89. Wood, Cl.-Book, 358; Bot. & Fl. 128. Brew. & Wats. Bot. Calif. 1. 236.

Bartonia aurea. Lindl. Bot. Reg. 22, **t. 1831.** D. Don, in Sweet, Brit. Fl. Gard. 2 ser. **t. 357.** Hook. Bot. Mag. **t. 3649.** Hook. & Arn. Bot. Beechey, 343. Sweet, Orn. Fl. Gard. 1, **t. 19.**

Creolobus aurea. Lilja, Fl. Sver. 67.

Chrysostoma aurea. Lilja, Fl. Sver. Suppl. 33; Linnæa, 15. 263.

M. micrantha. Torr. & Gray, Fl. 1. 535. Watson, Proc. Am. Acad. 11. 137. Brew. & Wats. Bot. Calif. 1. 236.

Bartonia micrantha. Hook. & Arn. Bot. Beechey, 343, **t. 85.** Walp. Rep. 2. 225. Dietr. 3. 87.

M. multiflora. Gray, Pl. Fendl. 48; Pl. Wright. 1. 74 & 2. 59; Proc. Acad. Philad. 1863, 61. Torrey, Sitgr. Rep. 159; Pac. R. Rep. 4. 89; Mex. Bound. 67. Porter, Fl. Col. 47. Parry, Am. Naturalist, 9. 271.

Bartonia multiflora. Nutt. Pl. Gambel. in Proc. Acad. Philad. 4. 23, & Journ. 1. 180.

M. nuda. Torr. & Gray, Fl. 1. 535; Pac. R. Rep. 2. 127. Torrey, Frem. Rep. 90; Marcy's Rep. 286; Emory's Rep. 408; Pac. R. Rep. 4. 89. Gray, Pl. Fendl. 47; Pl. Lindh. 191; Pl. Wright. 1. 73; Am. Journ. Sci. 2. 33. 405; Proc. Acad. Philad. 1863, 61. Engelm. Pl. Upp. Miss. 192. Anderson, Cat. Pl. Nev. 121. Porter, Hayd. Rep. 1870, 476; Fl. Col. 47. Young, Fl. Texas, 282. Rothr. Pl. Wheeler, 40.

Bartonia nuda. Pursh, 328 & 749. Poir. Suppl. 5. 572. Bradbury, Cat. 336. Nutt. Genera, 1. 299. James, Long's Exped. 2. 182. Spreng. Syst. 2. 493. Torrey, Ann. Lyc. N. Y. 2. 199. DC. Prodr. 3. 339. Don, Mill. 3. 61. Spach, Hist. Veg. 6. 238. Dietr. 3. 86. Hook. in Lond. Journ. Bot. 6. 227; Bot. Mag. **t. 5483.**

Torreya nuda. Eaton, Manual, 7 ed.

Touterea nuda. Eat. & Wr. 454.

M. oligosperma. Nutt. in Sims, Bot. Mag. **t. 1760.** Spreng. Syst. 2. 601. Torrey, Ann. Lyc. N. Y. 2. 199; Pac. R. Rep. 4. 89; Mex. Bound. 67. DC. Prodr. 3. 343. Don, Mill. 3. 65. Spach, Hist. Veg. 6. 240. Torr. & Gray, Fl. 1. 533. Eat. & Wr. 318. Dietr. 3. 84. Gray, Pl. Fendl. 47; Pl. Lindh. 191; Pl. Wright.

1. 73 & 2. 59; Proc. Acad. Philad. 1863, 61; Manual, 184. Young, Fl. Texas, 282. Porter, Fl. Col. 47.

M. aurea. Nutt. Genera, 1. 300. James, Cat. 182. Torrey, Ann. Lyc. N. Y. 2. 199. Eat. & Wr. 318.

M. rhombifolia. Nutt.; Torr. & Gray, l. c. Walp. Rep. 2. 223. Dietr. 3. 85.

M. petiolata. Buckley, Proc. Acad. Philad. 1861, 455; fide Gray, same, 1862, 163.

M. ornata. Torr. & Gray, Fl. 1. 534. Torrey, Nicol. Rep. 150; Sitgr. Rep. 175. Gray, Pl. Fendl. 47; Pac. R. Rep. 12. 43. Engelm. Pl. Upp. Miss. 192. Pl. Bourgeau, 256. Porter, Hayd. Rep, 1870, 476, & 1871, 483. Brandegee, Fl. S. W. Col. 236. Thurber, Am. Agriculturist, 36. 61, **fig.**

B. decapetala. Pursh in Sims, Bot. Mag. **t. 1487.**

Bartonia ornata. Pursh, 326. Poir. Suppl. 5. 572. Bradbury, Cat. 336. Nutt. Genera, 1. 297. James, Long's Exped. 2. 182. Barton, Fl. N. Am. 3. 29, **t. 81.** Spreng. Syst. 2. 493. Torrey, Ann. Lyc. N. Y. 2. 199. DC. Prodr. 3. 339. Don, Mill. 3. 61. Spach, Hist. Veg. 6. 237. Nees, Pl. Neuwied, 9.

Torreya ornata. Eaton, Manual, 7 ed.

Touterea ornata. Eat. & Wr. 452.

M. pumila. Torr. & Gray, Fl. 1. 535. Hook. in Lond. Journ. Bot. 6: 227. Gray, Pl. Wright. 1. 73. Torrey, Emory's Rep. 140; Pac. R. Rep. 5. 360.

Bartonia pumila. Nutt.; Walp. Rep. 2. 225. Dietr. 3. 87.

M. Wrightii. Porter, Fl. Col. 47.

M. multiflora, var. Parry, Am. Naturalist, 9. 271.

M. chrysantha. Engelm. in Brandegee, Fl. S. W. Col. 237.

M. Torreyi. Gray, Proc. Am. Acad. 10. 72. Brew. & Wats. Bot. Calif. 1. 237.

M. tricuspis. Gray, Am. Naturalist, 9. 271. Brew. & Wats. Bot. Calif. 1. 237. Watson, Proc. Am. Acad. 12. 252.

M. Wrightii. Gray, Pl. Fendl. 48; Pl. Wright. 1. 73. Torrey, Mex. Bound. 67.

Bartonia Wrightii. Walp. Ann. 2. 656.

Myriophyllum Wrightii. Gray, Hall's Pl. Texas, 9.

PETALONYX nitidus. Watson, Am. Naturalist, 7. 300; Pl. Wheeler, 9. Brew. & Wats. Bot. Calif. 1. 238.

P. Parryi. Gray, Proc. Am. Acad. 10. 72. Parry, Am. Naturalist, 9. 144 & 271. Brew. & Wats. Bot. Calif. 1. 238.

P. Thurberi. Gray, Pl. Thurb. 319 (Regensb. Flora, 38. 587). Walp. Ann. 5. 5. Torrey, Mex. Bound. 67, **t. 22.** Watson, Pl. Wheeler, 9. Brew. & Wats. Bot. Calif. 1. 238.

SYMPETALEIA aurea. Gray, Proc. Am. Acad. 12. 161.

TURNERACEÆ.

TURNERA Caroliniana.

Walteria (?) *Caroliniana.* Walter, 175.

T. cistoides. Pursh, 206; not Linn. Elliott, 1. 370. Nutt. Genera, 1. 204. Torr. & Gray, Fl. 1. 537. Eat. & Wr. 462. Wood, Cl.-Book, 362; Bot. & Fl. 129.

Piriqueta fulva. Chapman, 146.

? *Piriqueta glabra & tomentosa.* Chapman, 147.

? *T. glabra & tomentosa.* Wood, Bot. & Fl. 129.

PASSIFLORACEÆ.

CARICA Papaya. Linn. Spec. 1036. See syn. in DC. Prodr. 15[1]. 414; Pritzel, Index Icon. Bot. 1. 223 & 2. 67. Lindl. Bot. Reg. 6, **t. 459.** Hook. Bot. Mag. **t. 2898, 2899.** Roemer, Syn. Monogr. 2. 122. Griseb. Fl. Brit. W. Ind. 290.

Papaya vulgaris. DC. in Lam. Dict. 5. 2. Poir. in Lam. Ill. 3. 410, **t. 821.** A. DC. Prodr. 15[1]. 414; Geogr. Bot. 917. Nutt. Sylva, 3. 47, **t. 96.** Cooper, in Smithson. Rep. 1858, 264.

Papaya Carica. Gaertn. Fruct. 2. 191, **t. 122.**

PASSIFLORA affinis. Engelm. in Gray, Pl. Lindh. 233. Gray, Pl. Wright. 1. 75 & 2. 59. Walp. Ann. 2. 652. Torrey, Mex. Bound. 67. Masters, Mart. Fl. Bras. 13[1]. 554.

P. filipes. Benth. Pl. Hartw. 118. Masters, l. c. 553. (Northern Mexico.)

P. fœtida. Linn. Spec. 959. See syn. in Willd. Spec. 3. 619; Masters, l. c. 582. Cav. Diss. 2, **t. 289.** DC. Prodr. 3. 331. Griseb. Fl. Brit. W. Ind. 294. — Torrey, Mex. Bound. 67.

P. gossypiifolia. Desv. in Ham. Prodr. 28. Willd. Hort. Berol. **t. 46.** Sims, Bot. Mag. **t. 2619.** Lindl. Bot. Reg. **t. 1634.** Gray, Pl. Wright. 1. 75.

Dysosmia fœtida & *gossypiifolia.* Roemer, Syn. Monogr. 2. 149.

P. inamœna. Gray, Pl. Wright. 2. 59. Torrey, Pac. R. Rep. 4. 165. Masters, l. c. 546.

P. incarnata. Linn. Spec. 959, in part (Amœn. Acad. 1. 230, **t. 10, f. 19**). Medicus, Bot. Beobacht. 1783, 152. Jacquin, Ic. Rar. 1, **t. 187**; Coll. 1. 107. Walter, 223. Lam. Dict. 3. 40. Ait. Hort. Kew. 3. 310. Cav. Diss. 2. 460, **t. 293.** Willd. Spec. 3. 621. Michx. Fl. 2. 37. Nouv. Duham. 2. 50. Persoon, 2. 222. Ker, Bot. Reg. 2, **t. 152.** Barton, Bot. Appx. 30, **t. 25.** Elliott, 2. 153. Spreng. Syst. 3. 39. Torrey, Compend. 253. DC. Prodr. 3. 329. Beck, Bot. 129. Don, Mill. 3. 53. Hook. Comp. Bot. Mag. 1. 46; Bot. Mag. **t. 3697.** Spach, Hist. Veg. 6. 272. Torr. & Gray, Fl. 1. 538; Pac. R. Rep. 2. 165. Eat. & Wr. 344. Dietr. 4. 746. Roemer, l. c. 175. Chapman, 147. Gray, Manual, 186; Hall. Pl. Texas, 9. Masters, l. c. 565.

P. lutea. Linn. Spec. 958 (Amœn. Acad. 1. 224, **t. 10, f. 13**). Jacquin, Ic. Rar. 3, **t. 607**; Coll. 2. 282. Walter, 223. Ait. Hort. Kew. 3. 308. Cav. Diss. 2. 444, **t. 267.** Willd. Spec. 3. 615. Michx. Fl. 2. 37. Persoon, 2. 221. Ker, Bot. Reg. **t. 79.** Elliott, 2. 154. James, Cat. 185. Spreng. Syst. 3. 40. Torrey, Compend. 253. DC. Prodr. 3. 325. Beck, Bot. 129. Don, Mill. 3. 48. Hook. Comp. Bot. Mag. 1. 46. Spach, Hist. Veg. 6. 262. Torr. & Gray, Fl. 1. 538. Eat. & Wr. 344. Dietr. 4. 742. Roemer, l. c. 174. Chapman, 147. Gray, Manual, 185; Hall's Pl. Texas, 9. Masters, l. c. 554.

P. Mexicana. Juss. Ann. Mus. 6. 108, **t. 38.** Spreng. Syst. 3. 38. DC. Prodr. 3. 324. Torrey, Mex. Bound. 67. Masters, l. c. 552. (Sonora.)

Cieca Mexicana. Roemer, l. c. 146.

P. suberosa. Linn. Spec. 958. See syn. in Willd. Spec. 3. 617; Masters, l. c. 578. DC. Prodr. 3. 325. Grisebach, Fl. Brit. W. Ind. 290. — Gray, Pl. Wright. 1. 75. Chapman, 147.

Cieca suberosa. Roemer, l. c. 146.

P. peltata. Bartram, Travels, 131. Eat. & Wr. 344.

Var. **angustifolia.** Masters, l. c. 579.

P. angustifolia. Swartz, Prodr. 97. Willd. Spec. 3. 616. DC. Prodr. 3. 329. Torr. & Gray, Fl. 1. 539. Chapman, 148. Griseb. Fl. Brit. W. Ind. 291.

P. heterophylla. Ait. Hort. Kew. 3. 309. Jacq. Hort. Schœnb. 2. 28, t. **181.**

P. longifolia. Lam. Dict. 3. 39. Cav. Diss. 2. 446, t. **270.**

Var. **pallida.** Masters, l. c. 579.

P. pallida. Linn. Spec. 955. Lindl. Bot. Reg. t. **660.** DC. Prodr. 3. 323. Griseb. l. c.

P. Warei. Nutt. in Am. Journ. Sci. 5. 297. Torr. & Gray, Fl. 1. 539. Eat. & Wr. 344. Chapman, 148.

Cieca Warei. Roemer, l. c. 146.

P. tenuiloba. Engelm. in Gray, Pl. Lindh. 192. Gray, Pl. Wright. 1. 74 & 2. 59. Walp. Ann. 2. 653. Torrey, Mex. Bound. 67. Masters, l. c. 546.

CUCURBITACEÆ.

APODANTHERA (?) undulata. Gray, Pl. Wright. 2. 60. Torrey, Pac. R. Rep. 7. 11; Mex. Bound. 67. Naudin, Ann. Sci. Nat. 4. 6. 15. Walp. Ann. 4. 865.

CUCUMIS Anguria, Linn. Griseb. Fl. Brit. W. Ind. 288.

C. Melo, Linn. See syn. in Naudin, l. c. 4. 11. 34.

Var. **Texanus.** Naudin, Ann. Sci. Nat. 4. 12. 110 & 16. 100.

CUCURBITA Californica. Torrey; Watson, Proc. Am. Acad. 11. 138; Bot. Calif. 1. 240.

C. digitata. Gray, Pl. Wright. 2. 60; Ives's Rep. 12. Torrey, Pac. R. Rep. 7. 11; Mex. Bound. 67. Naudin, Ann. Sci. Nat. 4. 6. 56, 12. 85, & 18. 178; Rev. Hort. 1863, 131, t. Walp. Ann. 4. 864. Watson, Pl. Wheeler, 9. Brew. & Wats. Bot. Calif. 1. 239.

C. palmata. Watson, Proc. Am. Acad. 11. 137. Brew. & Wats. Bot. Calif. 1. 239.

C. Pepo, Linn. See syn. in Naudin, Ann. Sci. Nat. 4. 11. 29. — Gray, Pl. Fendl. 54. Tuckerman, Josselyn's Rarities, 90.

C. perennis. Gray, Pl. Lindh. 193; Pl. Wright. 1. 75 & 2. 60; Ives's Rep. 12. Torrey, Marcy's Rep. 286; Pac. R. Rep. 4. 89; Mex. Bound. 67. Torr. & Gray, Pac. R. Rep. 2. 164. Naudin, l. c. 4. 6. 54 & 70; Rev. Hort. 6. 53, f. **27.** Porter, Fl. Col. 49. Brew. & Wats. Bot. Calif. 1. 239.

? *C. fœtidissima.* HBK. Nov. Gen. 2. 123. Eat. & Wr. 215.

Cucumis (?) perennis. James, Long's Exped. 2. 20 & 346. Torrey, Ann. Lyc. N. Y. 2. 242. Seringe, DC. Prodr. 3. 302. Don, Mill. 3. 28. Torr. & Gray, Fl. 1. 543. Roemer, Syn. Monogr. 2. 80. Engelm. in Wisliz. Rep. 3. Gray, Pl. Fendl. 54. Torrey, Emory's Rep. 141 & 411. Dietr. 5. 362.

C. Texana. Gray, Pl. Lindh. 193; Pl. Wright. 1. 75. Walp. Ann. 2. 646.

Tristemon Texanum. Scheele, Linnæa, 21. 586 & 22. 352. Naudin, Ann. Sci. Nat. 4. 6. 20.

C. verrucosa, Linn. Nutt. Genera, 2. 228. Torr. & Gray, Fl. 1. 544. Tuckerman, l. c. 89.

CYCLANTHERA dissecta. Arnott, Hook. Journ. Bot. 3. 280. Walp. Rep. 5. 762; Ann. 2. 642. Gray, Pl. Lindh. 193; Pl. Wright. 1. 75 & 2. 61. Torrey, Pac. R. Rep. 4. 89; Mex. Bound. 67. Naudin, l. c. 5. 6. 16.

Discanthera dissecta. Torr. & Gray, Fl. 1. 607. Roemer, Syn. Monogr. 2. 100. Gray, Pl. Fendl. 54. Young, Fl. Texas, 284.

Echinocystis pedata. Scheele, Linnæa, 21. 587.

ECHINOCYSTIS lobata. Torr. & Gray, Fl. 1. 542. Arnott, Hook. Journ. Bot. 3. 276. Torrey, Fl. N. Y. 1. 250, **t. 30.** Roemer, l. c. 2. 83. Gray, Pl. Fendl. 54; Manual, 187. Parry, Pl. Minn. 612. Engelm. Pl. Upp. Miss. 193. Cooper, Pac. R. Rep. 12. 43. Naudin, l. c. 4. 12. 155 & 16. 187. Pl. Bourgeau, 256. Porter, Fl. Col. 49.

Momordica echinata. Muhl. Ind. Fl. Lanc. 180. Willd. Spec. 4. 605. Poir. Suppl. 3. 723. Pursh, 444. Nutt. Genera, 2. 228. Torrey, Compend. 362. Spreng. Syst. 3. 14. Seringe, DC. Prodr. 3. 312. Hook. Fl. Bor.-Am. 1. 220. Beck, Bot. 128. Don, Mill. 3. 36. Eat. & Wr. 321.

Sicyos lobatus. Michx. Fl. 2. 217. Poir. Dict. 7. 155.

Momordica lobata. Seringe, DC. Prodr. 3. 312.

Hexameria echinata. Torr. & Gray, in Torr. Rep. Pl. N. Y. 137.

ELATERIUM Bigelovii. Watson, Proc. Am. Acad. 12. 252.

Melothria pendula. Brew. & Wats. Bot. Calif. 1. 240, excl. char.

E. Coulteri. Gray, Pl. Wright. 2. 61. Walp. Ann. 4. 865. Torrey, Mex. Bound. 68.

? *Sicyos eremocarpus.* Schauer, Linnæa, 20. 722. Walp. Ann. 1. 317.

E. minimum. Watson, Proc. Am. Acad. 12. 252.

Marah minima. Kellogg, Proc. Calif. Acad. 2. 18.

E. (?) Wrightii. Gray, Pl. Wright. 2. 61. Walp. Ann. 4. 865. Torrey, Mex. Bound. 68.

LAGENARIA VULGARIS. Seringe, DC. Prodr. 3. 299. Torr. & Gray, Fl. 1. 543. Gray, Pl. Lindh. 194. Naudin, l. c. 4. 12. 91. A. DC. Geogr. Bot. 2. 897.

Cucurbita Lagenaria, Linn. Nutt. Genera, 2. 228. Elliott, 2. 662.

LUFFA ACUTANGULA, Roxb. See Naudin, l. c. 4. 12. 122. Gard. Chronicle, 2. 2. 178 & 782.

MEGARRHIZA Californica. Torrey, Pac. R. Rep. 6. 74 & 7. 11. Gray, Ives's Rep. 12; Proc. Bost. Soc. Nat. Hist. 7. 146. Watson, Proc. Am. Acad. 11. 138. Brew. & Wats. Bot. Calif. 1. 241. Gray, Am. Journ. Sci. 3. 14. 21, **fig. 1, 2** (germination).

Echinocystis fabacea. Naudin, Ann. Sci. Nat. 4. 12. 154, **t. 9,** & 16. 188. Benth. & Hook. Gen. Pl. 1. 835. Torrey, Bot. Wilkes, 302, in part.

? *M. Oregana.* Bolander, Cat. 13.

M. Guadalupensis. Watson, Proc. Am. Acad. 11. 115 & 138. Brew. & Wats. Bot. Calif. 1. 242. (Guadalupe Island.)

M. Marah. Watson, l. c. 138. Brew. & Wats. l. c. 241.

Marah muricatus. Kellogg, Proc. Calif. Acad. 1. 38.

M. muricata. Watson, l. c. 139. Brew. & Wats. l. c. Gray, l. c. 24.

Echinocystis muricata. Kellogg, Proc. Calif. Acad. 1. 57.

M. Oregona. Torrey, Pac. R. Rep. 6. 74. Cooper, same, 31 & 61. Watson, l. c. 138. Brew. & Wats. l. c. Gray, l. c.

Sicyos angulatus. Hook. Fl. Bor.-Am. 1. 220, in part.

Sicyos Oreganus. Torr. & Gray, Fl. 1. 542. Walp. Rep. 2. 204. Roemer, Syn. Monogr. 2. 103. Dietr. 5. 372.

Echinocystis fabacea. Gray, Proc. Am. Acad. 8. 384. Torrey, Bot. Wilkes, 302, in part.

MELOTHRIA grandifolia. Torr. & Gray, Fl. 1. 541. Walp. Rep. 2. 195. Roemer, l. c. 2. 28. Dietr. 5. 363.

M. pendula. Linn. Spec. 35. Walter, 66. Ait. Hort. Kew. 1. 54. Lam. Ill. 1. 102, **t. 28, f. 3.** Desrous. in Lam. Dict. 4. 87. Willd. Spec. 1. 189. Michx. Fl. 2. 217. Persoon, 2. 592. Elliott, 2. 662. Torrey, Compend. 361. Spreng. Syst. 3. 47. Seringe, DC. Prodr. 3. 313. Beck, Bot. 128. Don, Mill. 3. 37. Hook. Comp. Bot. Mag. 1. 46. Spach, Hist. Veg. 6. 224. Torr. & Gray, Fl. 1. 541. Eat. & Wr. 317. Arnott, Hook. Journ. Bot. 3. 274. Roemer, Syn. Monogr. 2. 27. Gray, Pl. Wright. 1. 75 & 2. 69; Manual, 187. Dietr. 5. 363. Torrey, Pac. R. Rep. 4. 88. Naudin, Ann. Sci. Nat. 4. 12. 148. Chapman, 149. Brew. & Wats. Bot. Calif. 1. 240, excl. habit. California.

Cucumis glaber. Walter, 240.

M. nigra. Raf. Ann. Nat. 1820; Med. Bot. 2. 242; New Flora, 4. 14.

? *M. repanda & punctata.* Raf. New Flora, 4. 15.

? *M. chlorocarpa.* Engelm.; Gray, Hall's Pl. Texas, 9.

MOMORDICA BALSAMINA, Linn. Eat. & Wr. 321.

Neurosperma cuspidata. Raf. Journ. Phys. 1819, 101. Spreng. Neue Entdeck. 1. 144. Seringe, DC. Prodr. 3. 312. Torr. & Gray, Fl. 1. 544. Roemer, l. c. 2. 60.

Neurosperma balsamina. Raf. Med. Bot. 2. 245.

M. CHARANTIA, Linn. Torr. & Gray, Fl. 1. 543. Roemer, l. c. 56.

SICYDIUM Lindheimeri. Gray, Pl. Lindh. 194; Pl. Wright. 1. 75 & 2. 60; Hall's Pl. Texas, 9. Walp. Ann. 2. 643. Torr. & Gray, Pac. R. Rep. 2. 164. Torrey, Mex. Bound. 67. Naudin, Ann. Sci. Nat. 4. 12. 144, & 16. 166, **t. 1, B.**

Bryonia Abyssinica. Gouault, Rev. Hort. 1853, 61, **t.**

Var. **tenuisectum.** Gray, Pl. Wright. 1. 75 & 2. 60. Walp. Ann. 4. 854. Torrey, Mex. Bound. 67. Naudin, l. c. 144.

S. tenellum. Naudin, l. c. 4. 16. 167, **t. 1, A.**

S. tripartitum. Naudin, l. c. 166.

S. sp. nov. ? Torrey, Marcy's Rep. 286.

SICYOS angulatus. Linn. Spec. 1013. Hill, Veg. Syst. 9. 16, **t. 15, f. 1.** Ait. Hort. Kew. 3. 386. Gaertn. Fruct. 2, **t. 88.** Schkuhr, Handb. 3. 303, **t. 316.** Michx. Fl. 2. 217. Willd. Spec. 4. 625. Poir. Dict. 7. 154. Persoon, 2. 595. Lam. Ill. 3. 377, **t. 796, f. 2.** Pursh, 444. Elliott, 2. 663. Spreng. Syst. 3. 47. Torrey, Compend. 362; Ann. Lyc. N. Y. 2. 242; Fl. N. Y. 1. 249. Seringe, DC. Prodr. 3. 309. Hook. Fl. Bor.-Am. 1. 220, in part. Beck, Bot. 128. Don, Mill. 3. 34. Spach, Hist. Veg. 6. 250. Darling. Fl. Cestr. 554. Torr. & Gray, Fl. 1. 541. Eat. & Wr. 424. Bigel. Fl. Bost. 3 ed. 365. Roemer, l. c. 2. 103. Gray, Pl. Lindh. 193; Manual, 186. Dietr. 5. 372. Chapman, 149.

Elaterium trifoliatum. Linn. Mant. 123. Lam. Dict. 2. 348. Willd. Spec. 4. 626. Persoon, 2. 532. Spreng. Syst. 3. 47. Don, Mill. 3. 35. Torr. & Gray, Fl. 1. 697. Roemer, l. c. 2. 83.

Cucumis (?) 2. Walter, 240.

Sicyoides angulata. Moench, Meth. 513.

? *S. vitifolius.* Willd. Spec. 4. 626. Seringe, DC. Prodr. 3. 309. Don, Mill. 3. 34.

S. acutus. Raf. Fl. Lud. 113. Seringe, DC. Prodr. 3. 309. Don, Mill. 3. 34. Roemer, l. c. 2. 104. Dietr. 5. 372.

S. parviflorus. Willd. Spec. 4. 626. HBK. Nov. Gen. 2. 119. Seringe, DC. Prodr. 309. Gray, Pl. Wright. 2. 62.

SICYOSPERMA gracile. Gray, Pl. Wright. 2. 62. Naudin, Ann. Sci. Nat. 4. 12. 163. Walp. Ann. 4. 867.

TRIANOSPERMA Boykinii. Roemer, Syn. Monogr. 2. 45. Naudin, l. c. 16. 196.

Arkezostis quinqueloba. Raf. New Flora, 4. 100.

Bryonia Boykinii. Torr. & Gray, Fl. 1. 540. Walp. Rep. 2. 198. Chapman, 148. Wood, Cl.-Book, 364; Bot. & Fl. 130.

Bryonia trispora. Nutt.; Arnott in Hook. Journ. Bot. 3. 276.

DATISCACEÆ.

DATISCA glomerata. Benth. & Hook. Gen. Pl. 1. 845. Brew. & Wats. Bot. Calif. 1. 242.

Tricerastes glomerata. Presl, Rel. Haenk. 2. 88, **t. 64.** Benth. Pl. Hartw. 334. Dietr. 5. 433. Lindl. Veg. Kingd. 316, **f. 219.** Torrey, Pac. R. Rep. 4. 135. A. DC. Prodr. 15[1]. 411. Bolander, Cat. 26.

CACTACEÆ.

ANHALONIUM fissuratum. Engelm. Cact. Mex. Bound. 75.

Mamillaria fissurata. Engelm. Syn. Cact. in Proc. Am. Acad. 3. 270 (14 of reprint); Cact. Mex. Bound. 17, **t. 16.** Walp. Ann. 5. 38.

CACTUS *Bleo & cylindricus;* Opuntia arborescens.

ferox; Opuntia Missouriensis.

fragilis; Opuntia fragilis.

humifusus; Opuntia vulgaris.

mamillaris; Mamillaria Missouriensis.

C. Opuntia; Opuntia Rafinesquii & vulgaris.

polyanthus; Opuntia polyantha.

pusillus & stellatus; Mamillaria pusilla.

viviparus; Mamillaria vivipara.

CEREUS adustus. Engelm. in Gray, Pl. Fendl. 50; Syn. Cact. 280 (24). Salm, Cact. Hort. Dyck. 191. Labouret, Monogr. Cact. 319. Walp. Ann. 5. 43. (Chihuahua.)

Echinocereus adustus & radians. Engelm. in Wisliz. Rep. 20. Walp. Ann. 3. 896.

C. Berlandieri. Engelm. Syn. Cact. 286 (30 & 59); Cact. Mex. Bound. 38, **t. 58.** Walp. Ann. 5. 46. Young, Fl. Texas, 275.

C. cæspitosus. Engelm. Pl. Lindh. in Journ. Bost. Soc. Nat. Hist. 5. 247 (reprint 39), & 6. 202; Gray, Pl. Fendl. 50; Syn. Cact. 280 (24); Cact. Mex. Bound. 32, **t. 43, 44.** Dietr. Allg. Gart. Zeit. 16. 18. Salm, Cact. Hort. Dyck. 191. Torr. & Gray, Pac. R. Rep. 2. 165. Engelm. & Bigel. Pac. R. Rep. 4. 32. Walp. Ann. 5. 43. Gray, Hall's Pl. Texas, 9. Young, Fl. Texas, 274. Brandegee, Fl. S. W. Col. 237.

Echinopsis pectinata. Fennel, Allg. Gart. Zeit. 11. 282. Pfeiffer, Abbild. Cact. 2, **t. 10.**

Echinocereus cæspitosus. Engelm. in Wisliz. Rep. 26. Scheele, Roemer's Texas, 435. Walp. Ann. 3. 896.

Echinocactus Reichenbachii. Tersch. Suppl. Cact. 2. Walp. Rep. 2. 320.

Echinopsis Reichenbachiana, Hort.

C. Reichenbachianus. Lab. Monogr. Cact. 318.

C. pectinatus, of authors, in part.

C. concolor. Schott; Engelm. in Pac. R. Rep. 4, errata and notes, ii.

Var. **castaneus**. Engelm. Pl. Lindh. 203.

C. chloranthus. Engelm.; Bigelow, Pac. R. Rep. 4. 35 & 36. Engelm. Syn. Cact. 278 (22); Cact. Mex. Bound. 29, **t. 37, 38**. Walp. Ann. 5. 42. Young, Fl. Texas, 273.

C. conoideus. Bigelow, Pac. R. Rep. 4. 36. Engelm. in Ives' Rep. 13. Porter, Fl. Col. 49.

C. phœniceus, var. *conoideus*. Engelm. & Bigel. Pac. R. Rep. 4. 35, **t. 4, f. 4, 5**. Engelm. Syn. Cact. 284 (28).

? *C. Roemeri*. Muhlenpf. in Allg. Gart. Zeit. 16. 19 (Bot. Zeit. 6. 597), not Engelm. Scheele, Roem. Texas, 435.

C. ctenoides. Engelm.; Bigel. in Pac. R. Rep. 4. 36. Engelm. Syn. Cact. 279 (23); Cact. Mex. Bound. 31, **t. 42**. Walp. Ann. 5. 42.

C. dasyacanthus. Engelm. in Gray, Pl. Fendl. 50; Syn. Cact. 279 (23), excl. var.; Cact. Mex. Bound. 30, **t. 39–41**. Salm, Cact. Hort. Dyck. 193. Labouret, Monogr. Cact. 321. Walp. Ann. 5. 42. Bigelow, Pac. R. Rep. 4. 36. Young, Fl. Texas, 274.

Echinocereus dasyacanthus. Engelm. in Wisliz. Rep. 16. Walp. Ann. 3. 895.

C. deflexispinus. Monville, Cat. 1846, fide Lab. l. c.

C. dubius. Engelm. Syn. Cact. 282 (26); Cact. Mex. Bound. 36, **t. 50**. Walp. Ann. 5. 44. Young, Fl. Texas, 274.

C. Emoryi. Engelm. in Am. Journ. Sci. 2. 14. 338; Syn. Cact. 286 (30); Cact. Mex. Bound. 40, **t. 60, f. 1–4**; Bot. Calif. 1. 247. Bigelow, Pac. R. Rep. 4. 36. Walp. Ann. 5. 46.

C. Engelmanni. Parry; Engelm. in Am. Journ. Sci. l. c.; Syn. Cact. 283 (27); Cact. Mex. Bound. 36, **t. 57**; Trans. Acad. St. Louis, 2. 199; King's Rep. 5. 117; Bot. Calif. 1. 246; Simpson's Rep. 440. Bigelow, Pac. R. Rep. 4. 36. Walp. Ann. 5. 44. Watson, Pl. Wheeler, 9.

Var. **chrysocentrus**. Engelm. & Bigel. in Pac. R. Rep. 4. 35, **t. 5, f. 8–10**. Engelm. Syn. Cact. 283 (27). Walp. l. c.

Var. **variegatus**. Engelm. & Bigel. l. c. **f. 4–7**. Engelm. l. c. Walp. l. c.

C. enneacanthus. Engelm. in Gray, Pl. Fendl. 50; Syn. Cact. 282 (26); Cact. Mex. Bound. 34. Salm, Cact. Hort. Dyck. 188. Lab. Monogr. Cact. 314. Poselger, Allg. Gart. Zeit. 21. 133. Bigelow, Pac. R. Rep. 4. 36. Walp. Ann. 5. 44.

Echinocereus enneacanthus. Engelm. in Wisliz. Rep. 27. Walp. Ann. 3. 896.

C. Fendleri. Engelm. in Gray, Pl. Fendl. 50 & 51; Syn. Cact. 281 (25); Cact. Mex. Bound. 33, **t. 51–53**; Ives' Rep. 13. Walp. Ann. 2. 684 & 5. 43. Engelm. & Bigel. Pac. R. Rep. 4. 33. Bigelow, same, 36. Porter, Fl. Col. 48.

? *Mamillaria fasciculata*. Engelm. in Emory's Rep. 156, **f. 2**.

C. giganteus. Engelm. in Emory's Rep. 158; Am. Journ. Sci. 2. 14. 335 & 17. 231 (Bot. Zeit. 12. 616); Syn. Cact. 287 (31); Cact. Mex. Bound. 42, **t. 61, 62** & **front.**; Bot. Calif. 1. 247. Thurber in Gray, Pl. Thurb. 302 & 305. Fl. Serres, 10. 24, **fig.**, & 15. 187, **t. 1500**. Bigelow, Pac. R. Rep. 4. 12. Engelm. & Bigel., same, 36. Walp. Ann. 5. 46. Lemaire, Ill. Hort. 9, Misc. 95. Marcou, Journ. Hort. France, 2. 3. 676.

Pilocereus Engelmanni. Lemaire, l. c. 9, Misc. 97.

C. gonacanthus. Engelm. & Bigel. Pac. R. Rep. 4. 33, **t. 5, f. 2, 3**. Bigelow, same, 33. Engelm. Syn. Cact. 283 (27). Walp. Ann. 5. 44. Porter, Fl. Col. 48.

C. Greggii. Engelm. in Wisliz. Rep. 18; Emory's Rep. 156, **f. 6**; Am. Journ. Sci. 2. 14. 339 & 446; Syn. Cact. 287 (31); Cact. Mex. Bound. 40, **t. 63, 64.** Walp. Ann. 3. 894 & 5. 46. Bigelow, Pac. R. Rep. 4. 36. Young, Fl. Texas, 276.

C. Pottsii. Salm, Cact. Hort. Dyck. 208. Labouret, Monogr. Cact. 364. Scheer, Seem. Bot. Herald, 293.

Var. **transmontanus.** Engelm. Syn. Cact. l. c.; Cact. Mex. Bound. 41, **t. 65.**

C. hexaedrus. Engelm. & Bigel. in Pac. R. Rep. 4. 34, **t. 5, f. 1.** Bigelow, same, 36. Engelm. Syn. Cact. 285 (29). Walp. Ann. 5. 45.

C. longisetus. Engelm.; Bigelow, Pac. R. Rep. 4. 36. Engelm. Syn. Cact. 289 (24); Cact. Mex. Bound. 32, **t. 45.** Walp. Ann. 5. 43.

C. Mohavensis. Engelm. & Bigel. Pac. R. Rep. 4. 33, **t. 4, f. 8.** Bigelow, same, 36. Engelm. Syn. Cact. 281 (25). Walp. Ann. 5. 43.

Var. (?) **Zuniensis.** Engelm. & Bigel. l. c., **f. 9.** Engelm. l. c. Walp. l. c. 44.

C. MONOCLONOS, DC? Chapman, 144.

C. paucispinus. Engelm.; Bigelow, Pac. R. Rep. 4. 34 & 36. Engelm. Syn. Cact. 285 (29); Cact. Mex. Bound. 37, **t. 56.** Walp. Ann. 5. 45. Young, Fl. Texas, 275. Porter, Fl. Col. 49.

C. pectinatus. Engelm. in Gray, Pl. Fendl. 50; Syn. Cact. 279 (23); Cact. Mex. Bound. 32. Salm, Cact. Hort. Dyck. 192. Scheer, Seem. Bot. Herald, 292. (Northern Mexico.)

Echinocactus pectinatus. Scheidweil, Bull. Brux. 5. 492. Walp. Rep. 2. 321.

Echinocereus pectinatus. Engelm. in Wisliz. Rep. 25. Walp. Ann. 3. 896.

Echinocactus pectiniferus. Lemaire, Cact. Nov. 25. Walp. Rep. 2. 322. Hook. Bot. Mag. **t. 4190.**

C. pectiniferus. Labouret, Monogr. Cact. 320.

Var. (?) **armatus.** Poselger, Allg. Gart. Zeit. 21. 134. Engelm. Syn. Cact. l. c. Walp. Ann. 5. 43.

Var. (?) **rigidissimus.** Engelm. l. c.; Bot. Mex. Bound. 31. Walp. l. c.

C. phœniceus. Engelm. in Bigel. Pac. R. Rep. 4. 34, **t. 4, f. 1–3.** Bigelow, same, 36. Engelm. Syn. Cact. 284 (28); I[illegible] Rep. 13. Walp. Ann. 5. 45. Porter, Fl. Col. 49.

Echinopsis octacantha. Muhlenpf. in Allg. Gart. [illegible] 16. 19 (Bot. Zeit. 6. 597). Scheele, Roem. Texas, 435. Walp. Ann. 2. 683.

Echinocereus coccineus. Engelm. in Wisliz. Rep. 9. Walp. Ann. 2. 684 & 3. 895.

C. coccineus. Engelm. in Gray, Pl. Fendl. 50 & 51, not DC., nor Salm. Salm, Cact. Hort. Dyck. 190. Lab. Monogr. Cact. 316.

C. Rœmerii. Engelm. in Gray, Pl. Fendl. 50; Gray, Pl. Lindh. 204; Syn. Cact. 285 (29). Salm, Cact. Hort. Dyck. 189. Lab. l. c. Walp. Ann. 5. 45.

Mamillaria aggregata. Engelm. in Emory's Rep. 155, **f. 1.**

C. polyacanthus. Engelm. in Gray, Pl. Fendl. 50; Cact. Mex. Bound. 37, **t. 54, 55**; Syn. Cact. 284 (28). Salm, Cact. Hort. Dyck. 189. Lab. Monogr. Cact. 315. Bigelow, Pac. R. Rep. 4. 36. Walp. Ann. 5. 45.

Echinocereus polyacanthus. Engelm. in Wisliz. Rep. 20. Walp. Ann. 3. 895.

C. princeps. Hort. Wurtzb.; fide Pfeiffer, Enum. Cact. 108. Salm, Cact. Hort. Dyck. 49. Lab. l. c. 373. Engelm. in Trans. Acad. St. Louis, 2. 202.

C. variabilis. Engelm. in Gray, Pl. Lindh. 205, not Pfeiff.; Syn. Cact. 287 (31); Cact. Mex. Bound. 40, **t. 60, f. 1–4.** Young, Fl. Texas, 276.

? *C. Vasmerii.* Young, Fl. Texas, 276.

C. procumbens. Engelm. in Gray, Pl. Fendl. 50; Gray, Pl. Lindh. 203; Syn. Cact. 286 (30); Cact. Mex. Bound. 38, **t. 59, f. 1–11.** Walp. Ann. 2. 683 & 5. 46. Young, Fl. Texas, 275.

C. Rœtteri. Engelm. Cact. Mex. Bound. 33, **t. 41, f. 3–5**; Proc. Am. Acad. 3. 345.

C. dasyacanthus, var. *minor*. Engelm. Syn. Cact. 279 (23).

C. rufispinus. Engelm. in Gray, Pl. Fendl. 50; Syn. Cact. 280 (24). Salm, Cact. Hort. Dyck. 193. Lab. Monogr. Cact. 320. Walp. Ann. 5. 43. (Chihuahua.)

Echinocereus rufispinus. Engelm. in Wisliz. Rep. 20. Walp. Ann. 3. 896.

C. Schottii. Engelm. Syn. Cact. 288 (32); Cact. Mex. Bound. 44, **t. 74, f. 16** (seed); Bot. Calif. 1. 247. Walp. Ann. 5. 47.

C. ——? Bigelow, Pac. R. Rep. 4. 37.

C. stramineus. Engelm. Syn. Cact. 282 (26); Cact. Mex. Bound. 35, **t. 46, 47, 48, f. 1.** Bigelow, l. c. 36. Walp. Ann. 5. 44.

C. Thurberi. Engelm. in Am. Journ. Sci. 2. 17. 234; Syn. Cact. 288 (32); Cact. Mex. Bound. 44, **t. 74, f. 15** (seed); Fl. Calif. 1. 247. Thurber, in Gray, Pl. Thurb. 302. Walp. Ann. 5. 47. Fl. Serres, 10. 29.

C. TRIANGULARIS, Haworth? Chapman, 144.

C. triglochidiatus. Engelm. in Gray, Pl. Fendl. 50 & 51; Syn. Cact. 283 (27). Walp. Ann. 5. 45. Engelm. & Bigel. in Pac. R. Rep. 4. 34, **t. 4, f. 6, 7.**

Echinocereus triglochidiatus. Engelm. in Wisliz. Rep. 9. Walp. Ann. 3. 895.

C. tuberosus. Poselger, Allg. Gart. Zeit. 21. 135. Engelm. Syn. Cact. 286 (30); Cact. Mex. Bound. 39 & 76, **t. 59, f. 12.** Walp. Ann. 5. 46. Young, Fl. Texas, 275.

C. viridiflorus. Engelm. in Gray, Pl. Fendl. 50; Syn. Cact. 278 (22); Trans. Acad. St. Louis, 2. 199; King's Rep. 5. 118; Simpson's Rep. 440. Salm, Cact. Hort. Dyck. 192. Lab. Monogr. Cact. 319. Walp. Ann. 5. 42. Bigelow, Pac. R. Rep. 4. 32 & 36. Young, Fl. Texas, 273. Watson, Pl. Wheeler, 9. Porter, Fl. Col. 48.

Echinocereus viridiflorus. Engelm. in Wisliz. Rep. 7. Walp. Ann. 3. 895.

Var. **cylindricus.** Engelm. Cact. Mex. Bound. 28, **t. 36**; Syn. Cact. l. c. Walp. Ann. 5. 42.

C. Californicus; Opuntia serpentina.
coccineus; phœniceus.
concolor; cæspitosus.
dasyacanthus; Rœtteri.
deflexispinus; dasyacanthus.
pectinatus; cæspitosus.
pectiniferus; pectinatus.
C. phœniceus; conoideus.
Pottsii; Greggii.
Reichenbachianus; cæspitosus.
Rœmeri; conoideus, phœniceus.
variabilis & *Vasmerii*; princeps.
——?; Schottii.

ECHINOCACTUS bicolor. Galeotti; Pfeiffer, Abbild. Cact. 2, **t. 25.** Salm, Cact. Hort. Dyck. 173. Lab. Monogr. Cact. 259. Scheer, Seem. Bot. Herald, 291. Young, Fl. Texas, 280. (Northern Mexico.)

Var. **Schottii.** Engelm. Syn. Cact. 277 (21); Cact. Mex. Bound. 27. Walp. Ann. 5. 41.

E. brevihamatus. Engelm. Syn. Cact. 271 (15); Cact. Mex. Bound. 19, **t. 18, 19**; Simpson's Rep. 437. Walp. Ann. 5. 38.

E. Californicus. Monville, Cat. 1846. Lab. Monogr. Cact. 199. Engelm. in Am. Journ. Sci. 2. 14. 338. (Lower California ?)

E. cylindraceus. Engelm. Pac. R. Rep. 4. 32; Syn. Cact. 275 (19); Cact. Mex. Bound. 25, **t. 30**; Bot. Calif. 1. 245. Walp. Ann. 5. 40. Fenzi, Bull. Soc. Tosc. Ortic. 2. 54, **f. 7.**

E. viridescens, var. (?) *cylindraceus.* Engelm. in Am. Journ. Sci. 2. 14. 338.

E. Emoryi. Engelm. in Emory's Rep. 156, **f. 5**; Syn. Cact. 275 (19); Cact. Mex. Bound. 23, **t. 28**; Bot. Calif. 1. 245. Engelm. & Bigel. Pac. R. Rep. 4. 31, **t. 3, f. 3.** Walp. Ann. 5. 40.

E. horizonthalonius. Lemaire, Cact. Nov. 19. Walp. Rep. 2. 317. Salm, Cact. Hort. Dyck. 146. Lab. Monogr. Cact. 179. Engelm. Cact. Mex. Bound. 75.

E. equitans. Scheidweil, Bull. Brux. 6². 2. Walp. Rep. 2. 323.

Var. **centrispinus.** Engelm. Syn. Cact. 276 (20); Cact. Mex. Bound. 26, **t. 31, 32, f. 1–5.** Walp. Ann. 5. 41.

E. laticostatus. Engelm. & Bigel. Pac. R. Rep. 4. 32.

E. intertextus. Engelm. Syn. Cact. 277 (21); Cact. Mex. Bound. 27, **t. 34.** Walp. Ann. 5. 41.

Var. **dasyacanthus.** Engelm. Syn. Cact. l. c.; Cact. Mex. Bound. 28, **t. 35, f. 1–5.** Walp. l. c.

E. Johnsoni. Parry; Engelm. in King's Rep. 5. 117.

E. longihamatus. Galeotti; Pfeiffer, Abbild. Cact. 2, **t. 16.** Salm, Cact. Hort. Dyck. 152. Lab. Monogr. Cact. 201. Hook. Bot. Mag. **t. 4632.** Scheer, Seem. Bot. Herald, 200. Engelm. Syn. Cact. 273 (17); Cact. Mex. Bound. 22 & 75, **t. 21–24.** Walp. Ann. 5. 39.

E. flexispinus. Engelm. in Wisliz. Rep. 27. Walp. Ann. 3. 894.

E. setispinus, var. *longehamatus.* Poselger, Allg. Gart. Zeit. 21. 119.

Var. **gracilispinus.** Engelm. Syn. Cact. l. c.; Cact. Mex. Bound. 22. Walp. Ann. 5. 40.

E. hamatocanthus. Muhlenpf. in Allg. Gart. Zeit. 14. 371. Walp. Ann. 1. 333.

Var. **brevispinus.** Engelm. ll. cc. Walp. l. c.

E. papyracanthus. Engelm. Trans. Acad. St. Louis, 2. 202; Simpson's Rep. 437.

Mamillaria papyracantha. Engelm. in Gray, Pl. Fendl. 49; Syn. Cact. 264 (8). Walp. Ann. 2. 680.

E. Parryi. Engelm. Pac. R. Rep. 4. 32; Syn. Cact. 276 (20); Cact. Mex. Bound. 25, **t. 32, f. 6, 7.** Walp. Ann. 5. 41. (Chihuahua.)

E. polyancistrus. Engelm. & Bigel. Pac. R. Rep. 4. 29, **t. 2, f. 1, 2.** Engelm. Syn. Cact. 272 (16); King's Rep. 5. 116; Bot. Calif. 1. 245. Walp. Ann. 5. 39.

E. polycephalus. Engelm. & Bigel. Pac. R. Rep. 4. 31, **t. 3, f. 4–6.** Engelm. Syn. Cact. 276 (20); Cact. Mex. Bound. 25; King's Rep. 5. 117; Bot. Calif. 1. 246. Walp. Ann. 5. 41. Watson, Pl. Wheeler, 9.

E. pubispinus. Engelm. in Trans. Acad. St. Louis, 2. 199; King's Rep. 5. 117; Simpson's Rep. 439.

E. Scheerii. Salm, Cact. Hort. Dyck. 155. Scheer in Seem. Bot. Herald, 200. Lab. Monogr. Cact. 204. Engelm. Syn. Cact. 271 (15); Cact. Mex. Bound. 18, **t. 17.** Walp. Ann. 5. 38.

E. setispinus. Engelm. in Gray, Pl. Lindh. 201; Syn. Cact. 272 (16); Cact. Mex. Bound. 21 & 75, **t. 20.** Dietr. Allg. Gart. Zeit. 16. 18 & 19. 44. Scheele, Roem.

Texas, 435. Salm, Cact. Hort. Dyck. 153. Lab. Monogr. Cact. 203. Walp. Ann. 5. 39. Gray, Hall's Pl. Texas, 9.

E. hamatus. Muhlenpf. in Allg. Gart. Zeit. 16. 18 (Bot. Zeit. 6. 597). Scheele, Roem. Texas, 435.

E. Muhlenpfordtii. Fennel, Allg. Gart. Zeit. 15. 65. Walp. Ann. 1. 334.

E. Cachetianus. Lem. in Cels. Cat.

Var. **setaceus.** Engelm. in Gray, Pl. Lindh. 201; Syn. Cact. l. c. Walp. l. c.

E. setispinus. Engelm. in Pl. Lindh. 246 (38).

E. Simpsoni. Engelm. in Trans. Acad. St. Louis, 2. 197; King's Rep. 5. 117; Hayd. Rep. 1871, 484; Simpson's Rep. 437, **t. 1, 2.** Porter, Fl. Col. 48. Gard. Chronicle, 2. 6. 292, **f. 60.** Helmsley, The Garden, 11. 274, **t. 68.**

Var. **minor.** Engelm. in Simpson's Rep. 437.

E. sinuatus. Dietr. Allg. Gart. Zeit. 19. 345 (Bot. Zeit. 12. 387). Engelm. Syn. Cact. 273 (17); Cact. Mex. Bound. 21, **t. 74, f. 11–14** (seeds). Walp. Ann. 5. 39.

E. Treculianus. Lab. Monogr. Cact. 202.

E. setispinus, vars. *sinuatus* & *robustus.* Poselger, Allg. Gart. Zeit. 21. 119.

E. Texensis. Hoepf. in Allg. Gart. Zeit. 15. 297. Engelm. in Wisliz. Rep. 29; Gray, Pl. Lindh. 202; Syn. Cact. 276 (20); Cact. Mex. Bound. 27, **t. 33.** Scheele, Roem. Texas, 435. Salm, Cact. Hort. Dyck. 150. Lab. Monogr. Cact. 196. Poselger, l. c. 118. Torr. & Gray, Pac. R. Rep. 2. 165. Engelm. & Bigel. in same, 4. 32. Walp. Ann. 5. 41. Gray, Hall's Pl. Texas, 9. Young, Fl. Texas, 279.

E. Lindheimeri. Engelm. Pl. Lindh. 246 (38). Dietr. Allg. Gart. Zeit. 16. 18.

E. uncinatus. Hoepf. in Foerst. Handb. 321. Pfeiffer, Abbild. Cact. 2, **t. 18.** Salm, Cact. Hort. Dyck. 153. Lab. Monogr. Cact. 201. Scheer, Seem. Bot. Herald, 290. Engelm. Cact. Mex. Bound. 21, **t. 74, f. 9** (seeds).

E. ancylacanthus Monville, Cat. 1846, fide Lab. l. c.

Var. **Wrightii.** Engelm. Syn. Cact. 272 (16); Cact. Mex. Bound. 20, **t. 74, f. 10** (seeds). Walp. Ann. 5. 39.

E. unguispinus. Engelm. in Wisliz. Rep. 27. Salm, Cact. Hort. Dyck. 154. Lab. Monogr. Cact. 203. (Chihuahua.)

E. viridescens. Nutt.; Torr. & Gray, Fl. 1. 554. Engelm. in Am. Journ. Sci. 2. 14. 338, excl. var.; Syn. Cact. 275 (19); Cact. Mex. Bound. 24, **t. 29**; Ives' Rep. 13; Bot. Calif. 1. 245. Walp. Ann. 5. 40. Young, Fl. Texas, 280. Gard. Chronicle, 2. 7. 172, **f. 26.**

Melocactus viridescens. Teschemacher, Journ. Bost. Soc. Nat. Hist. 5. 293.

E. Whipplei. Engelm. & Bigel. Pac. R. Rep. 4. 28, **t. 1.** Engelm. Syn. Cact. 271 (15); Ives' Rep. 12; Trans. Acad. St. Louis, 2. 199; King's Rep. 5. 116; Bot. Calif. 1. 244. Walp. Ann. 5. 39. Brandegee, Fl. S. W. Col. 237.

Var. **spinosior.** Engelm. in Simpson's Rep. 439.

E. Wislizeni. Engelm. in Wisliz. Rep. 12; Emory's Rep. 156, **f. 4**; Syn. Cact. 274 (18); Cact. Mex. Bound. 23 & 75, **t. 25, 26**; Bot. Calif. 1. 246. Salm, Cact. Hort. Dyck. 151. Lab. Monogr. Cact. 200. Scheer, Seem. Bot. Herald, 290 & 346. Bigelow, Pac. R. Rep. 4. 12. Engelm. & Bigel., same, 4. 30, **t. 3, f. 1, 2.** Walp. Ann. 3. 894. Watson, Pl. Wheeler, 9.

E. Lecontei. Engelm. Pac. R. Rep. 4. 29, **t. 2, f. 3–5**; Syn. Cact. 274 (18); Cact. Mex. Bound. 23, **t. 27**; Ives' Rep. 13. Torrey, Pac. R. Rep. 7. 11. Walp. Ann. 5. 40.

E. ancylacanthus; uncinatus.
Cachetianus; setispinus.
equitans; horizonthalonius.
flexispinus & *hamatocanthus;* longihamatus.
hamatus; setispinus.
laticostatus; horizonthalonius.
Lecontei; Wislizeni.
E. Lindheimeri; Texensis.
Muhlenpfordtii; setispinus.
pectinatus & *pectiniferus;* Cereus pectinatus.
Reichenbachii; Cereus cæspitosus.
setispinus; longihamatus, sinuatus.
Treculianus; sinuatus.
viridescens; cylindraceus.

MAMILLARIA Arizonica. Engelm. in Watson, Pl. Wheeler, 9; Bot. Calif. 1. 244.

M. barbata. Engelm. in Wisliz. Rep. 21; Syn. Cact. 261 (5); Cact. Mex. Bound. 64, t. **6**, f. **9–12**; Trans. Acad. St. Louis, 2. 201. Salm, Cact. Hort. Dyck. 82. Lab. Monogr. Cact. 30. Walp. Ann. 3. 894 & 5. 34. (Chihuahua.)

M. bicolor. Lehmann, Del. Sem. Hamb. 1830 (Litt.-Ber. zu Linnæa, 1831, 11). Pfeiffer, Enum. Cact. 27; Abbild. Cact. 1, t. **3**. Walp. Rep. 2. 289; Ann. 5. 35. Dietr. 3. 90. Salm, Cact. Hort. Dyck. 89. Lab. Monogr. Cact. 57. Poselger, Allg. Gart. Zeit. 21. 94. Engelm. Syn. Cact. 263 (7); Trans. Acad. St. Louis, 2. 202. (Mexico.)

M. nivea. Wendland, Cat. Hort. Herrn. 1835. Pfeiff. l. c. 27. Walp. l. c. 289.
M. geminispina. Haworth, Phil. Mag. 63. 42.

M. calcarata. Engelm. in Gray, Pl. Lindh. 195; Syn. Cact. 267 (11); Cact. Mex. Bound. 14, t. **74**, f. **1** (seed). Salm, Cact. Hort. Dyck. 131. Lab. Monogr. Cact. 142. Walp. Ann. 5. 37.

M. sulcata. Engelm. Pl. Lindh. 246 (38), not Pfeiff. (Allg. Gart. Zeit. 16. 18). Torrey, Emory's Rep. 408.

M. strobiliformis. Muhlenpf. in Allg. Gart. Zeit. 16. 19 (Bot. Zeit. 6. 597), not Scheer. Scheele, Roem. Texas, 435.

M. compacta. Engelm. in Wisliz. Rep. 21; Gray, Pl. Lindh. 196; Syn. Cact. 266 (10); Cact. Mex. Bound. t. **74**, f. **2** (seed). Walp. Ann. 3. 894. (Chihuahua.)

M. conoidea. DC. Rev. Cact. 112; Mém. Cact. 6, t. **2**. Pfeiffer, Enum. Cact. 35. Walp. Rep. 2. 291. Dietr. 3. 92 & 94. Salm, Cact. Hort. Dyck. 104. Pfeiffer, Abbild. Cact. 2, t. **26**. Lab. Monogr. Cact. 86. Engelm. Syn. Cact. 268 (12). (Mexico.)

M. inconspicua. Scheidw. Bull. Acad. Brux. 5. 495. Walp. Rep. 2. 301.
M. diaphanacantha. Lemaire, Cact. Nov. 39.
M. echinocactoides. Pfeiffer, Allg. Gart. Zeit. 8. 281. Walp. Rep. 2. 290.
M. strobiliformis. Engelm. in Wisliz. Rep. 29, not Scheer. Walp. Ann. 3. 894.

M. dasyacantha. Engelm. Syn. Cact. 268 (12); Cact. Mex. Bound. 15, t. **12**, f. **17–22**. Walp. Ann. 5. 37.

M. Echinus. Engelm. Syn. Cact. 267 (11); Cact. Mex. Bound. 13, t. **10**. Walp. Ann. 5. 37.

M. fasciculata. Engelm. in Emory's Rep. 156, f. **2**.

M. Goodridgii. Scheer; Salm, Cact. Hort. Dyck. 91. Lab. Monogr. Cact. 32. Scheer, Seem. Bot. Herald, 286. Engelm. in Am. Journ. Sci. 2. 14. 338; Syn. Cact. 262 (6); Cact. Mex. Bound. 8, t. **8**, f. **9–14**; Bot. Calif. 1. 243. Walp. Ann. 5. 34.

M. Grahami. Engelm. Syn. Cact. 262 (6); Cact. Mex. Bound. 7 & 74, t. **6**, f. 1–3; Pac. R. Rep. 4. 27; Ives' Rep. 12; King's Rep. 5. 115; Bot. Calif. 1. 244. Walp. Ann. 5. 34.

? *M. microcarpa.* Engelm. in Emory's Rep. 156, f. **3**.

M. gummifera. Engelm. in Wisliz. Rep. 21; Gray, Pl. Lindh. 199; Syn. Cact. 264 (8); Cact. Mex. Bound. 8, **t. 9, f. 18-20.** Walp. Ann. 2. 681.

M. Heyderi. Muhlenpf. in Allg. Gart. Zeit. 16. 20 (Bot. Zeit. 7. 598). Scheele, Roem. Texas, 435. Walp. Ann. 2. 680 & 5. 35. Engelm. Syn. Cact. 263 (7); Cact. Mex. Bound. 8, **t. 9, f. 4-14.**

M. applanata. Engelm. in Gray, Pl. Lindh. 198. Salm, Cact. Hort. Dyck. 109. Lab. Monogr. Cact. 84.

M. declivis. Dietr. Allg. Gart. Zeit. 18. 235. Walp. Ann. 2. 680.

M. Texensis. Labouret, Monogr. Cact. 89.

Var. **hemisphærica.** Engelm. Syn. Cact. l. c.; Cact. Mex. Bound. 8, **t. 9, f. 15-17.**

M. hemisphærica. Engelm. in Gray, Pl. Lindh. 198. Walp. l. c.

M. lasiacantha. Engelm. Syn. Cact. 261 (5); Cact. Mex. Bound. 5. & 73, **t. 3, 4.** Walp. Ann. 5. 33.

M. macromeris. Engelm. in Wisliz. Rep. 13; Syn. Cact. 270 (14); Cact. Mex. Bound. 16 & 74, **t. 14, 15.** Salm, Cact. Hort. Dyck. 133. Lab. Monogr. Cact. 145. Walp. Ann. 3. 893.

M. dactylithele. Labouret, l. c. 146.

M. meiacantha. Engelm. Pac. R. Rep. 4. 27; Syn. Cact. 263 (7); Cact. Mex. Bound. 9, **t. 9, f. 1-3.** Walp. Ann. 5. 35.

M. microcaris. Engelm. Syn. Cact. 260 (4); Cact. Mex. Bound. 3 & 73, **t. 1 & 2, f. 1-4.** Walp. Ann. 5. 33. Wood, Cl.-Book, 360.

Var. **Greggii.** Engelm. Syn. Cact. 261 (5). Walp. l. c.

M. Missouriensis. Sweet, Hort. Brit. 171. Don, Mill. 3. 160. Dietr. 3. 94.

Cactus mamillaris. Nutt. Genera, 1. 295, not Linn. James, Long's Exped. 2. 140. Torrey, Ann. Lyc. N. Y. 2. 202. Eat. & Wr. 163.

M. simplex. Torr. & Gray, Fl. 1. 553.

M. Nuttallii. Engelm. in Gray, Pl. Fendl. 49; Gray, Pl. Lindh. 199; Pl. Upp. Miss. 192; Syn. Cact. 260 (14); Cact. Mex. Bound. **t. 74, f. 6** (seed); King's Rep. 5. 116. Walp. Ann. 2. 680 & 5. 35.

Var. **cæspitosa.**

M. cæspitosa. Gray, Struct. Bot. 421, **f. 838.**

M. similis. Engelm. Pl. Lindh. 246 (38); Gray, Pl. Lindh. 200 (Allg. Gart. Zeit. 16. 18). Salm, Cact. Hort. Dyck. 106. Lab. Monogr. Cact. 79.

M. Nuttallii, var. *cæspitosa.* Engelm. Syn. Cact. 265 (9); Cact. Mex. Bound. 10, **t. 74, f. 7** (seed). Walp. Ann. 5. 36. Porter, Fl. Col. 47.

Var. **robustior.**

M. similis, var. *robustior.* Engelm. in Gray, Pl. Lindh. 200. Salm, l. c.

M. Nuttallii, var. *robustior.* Engelm. & Bigel. Pac. R. Rep. 4. 28. Engelm. Syn. Cact. 265 (9). Walp. Ann. 5. 36.

M. pectinata. Engelm. Syn. Cact. 266 (10); Cact. Mex. Bound. 12 & 74, **t. 11.** Walp. Ann. 5. 36.

M. phellosperma. Engelm. Syn. Cact. 262 (6); Cact. Mex. Bound. 6, **t. 7;** Ives' Rep. 12; King's Rep. 5. 115; Bot. Calif. 1. 244. Engelm. & Bigel. Pac. R. Rep. 4. 27. Torrey, same, 5. 360. Walp. Ann. 5. 34.

M. tetrancistra. Engelm. in Am. Journ. Sci. 2. 14. 337, in part. Bigelow, Pac. R. Rep. 4. 15.

M. Pottsii. Scheer; Salm, Cact. Hort. Dyck. 104. Scheer, Seem. Bot. Herald, 137. Lab. Monogr. Cact. 72. Engelm. Syn. Cact. 268 (12). Walp. Ann. 5. 37.

M. pusilla. DC. Rev. Cact. 29, **t. 2, f. 1**; Prodr. 3. 459. Pfeiffer, Enum. 36. Salm, Cact. Hort. Dyck. 7. Lab. l. c. 25.

Cactus stellatus. Willd. Enum. Suppl. 30. Lodd. Bot. Cab. **t. 79.**

Cactus pusillus. DC. Cat. h. Monsp. 184.

M. stellaris. Haworth, Syn. Pl. Succ. Suppl. 72.

Var. **Texana.** Engelm. Syn. Cact. 261 (5); Cact. Mex. Bound. 5, **t. 5.** Walp. Ann. 5. 34.

M. Texana. Young, Fl. Texas, 279.

M. recurvata. Engelm. in Trans. Acad. St. Louis, 2. 202. (Sonora.)

M. recurvispina. Engelm. Syn. Cact. 266 (10); Cact. Mex. Bound. 12.

M. robustispina. Schott; Engelm. Syn. Cact. 265 (9); Cact. Mex. Bound. 11, **t. 74, f. 8** (seed). Walp. Ann. 5. 36.

M. Scheerii. Muhlenpf. in Allg. Gart. Zeit. 15. 97, **t. 2** (Bot. Zeit. 5. 495), not 13. 346 (Walp. Rep. 5. 810). Salm, Cact. Hort. Dyck. 133. Lab. Monogr. Cact. 147. Scheer, Seem. Bot. Herald, 289. Engelm. Cact. Mex. Bound. 11.

Var. (?) **valida.** Engelm. Syn. Cact. 265 (9); Cact. Mex. Bound. 10 & 74.

M. scolymoides. Scheidweil, Allg. Gart. Zeit. 9. 44. Walp. Rep. 2. 259. Salm, Cact. Hort. Dyck. 131. Lab. Monogr. Cact. 144. Engelm. Syn. Cact. 267 (11 & 59); Cact. Mex. Bound. 14 [illegible]

M. sphærica. Dietr. Allg. Gart. Zeit. 21. 94. Engelm. Syn. Cact. 264 (8); Cact. Mex. Bound. 9 & 74. Walp. Ann. 5. 35. Young, Fl. Texas, 279.

M. strobiliformis. Scheer; Salm, Cact. Hort. Dyck. 104, not Muhlenpf. Scheer, Seem. Bot. Herald, 287. Lab. Monogr. Cact. 73. Engelm. Cact. Mex. Bound. 74.

M. tuberculosa. Engelm. Syn. Cact. 268 (12); Cact. Mex. Bound. 14, t. 22, **f. 1–16.** Walp. Ann. 5. 37.

M. vivipara. Haworth, Syn. Pl. Succ. Suppl. 72. DC. Prodr. 3. 459. Don, Mill. 3. 160. Torr. & Gray, Fl. 1. 554. Walp. Rep. 2. 291; Ann. 5. 37. Leavenworth, Am. Journ. Sci. 1. 49. 130. Engelm. in Gray, Pl. Fendl. 49; Gray, Pl. Lindh. 197; Pl. Upp. Miss. 192; Syn. Cact. 269 (13); Cact. Mex. Bound. 15, **t. 64, f. 3**; Trans. Acad. St. Louis, 2. 197; King's Rep. 5. 115; Hayd. Rep. 1871, 484; Simpson's Rep. 436. Salm, Cact. Hort. Dyck. 106. Lab. Monogr. Cact. 79. Dietr. 3. 92. Porter, Fl. Col. 48. Watson, Pl. Wheeler, 9.

Cactus viviparus. Nutt. in Fras. Cat.; Genera, 1. 295. Pursh, 735. Poir. Suppl. 5. 587. Bradbury, Cat. 336. James, Cat. 181. Spreng. Syst. 2. 494. Torrey, Ann. Lyc. N. Y. 2. 202. Eat. & Wr. 163.

M. Missouriensis. Scheer, Seem. Bot. Herald, 287.

Var. **radiosa.** Engelm. in Gray, Pl. Fendl. 49; Syn. Cact. l. c.; Cact. Mex. Bound. 15, **t. 74, f. 4, 5** (seed). Engelm. & Bigel. Pac. R. Rep. 4. 28. Walp. Ann. 5. 38.

M. radiosa. Engelm. in Gray, Pl. Lindh. 196. Salm, Cact. Hort. Dyck. 103. Lab. Monogr. Cact. 78.

M. Wrightii. Engelm. Pac. R. Rep. 4. 27; Syn. Cact. 262 (6); Cact. Mex. Bound. 7 & 74, **t. 8, f. 1–8.** Walp. Ann. 5. 34.

M. aggregata; Cereus phœniceus.
applanata; Heyderi.
cæspitosa; Missouriensis.
dactylithele; macromeris.
M. declivis; Heyderi.
diaphanacantha & *echinocactoides;* conoidea.
fasciculata; Cereus Fendleri.

M. fissurata; Anhalonium fissuratum.
geminispina; bicolor.
hemisphærica; Heyderi.
inconspicua; conoidea.
microcarpa; Grahami.
Missouriensis; vivipara.
nivea; bicolor.
Nuttallii; Missouriensis.
papyracantha; Echinocactus papyracantha.
M. radiosa; vivipara.
recurvispina; recurvata.
similis & *simplex;* Missouriensis.
stellaris; pusilla.
strobiliformis; calcarata, conoidea.
sulcata; calcarata.
tetrancistra; phellosperma.
Texana; pusilla.
Texensis; Heyderi.
tuberculosa; strobiliformis.

OPUNTIA acanthocarpa. Engelm. & Bigel. Pac. R. Rep. 4. 51, **t. 18, f. 1–3,** & **t. 24, f. 11** (seeds). Engelm. Syn. Cact. 308 (52); King's Rep. 5. 120. Walp. Ann. 5. 56.

? *O. Californica.* Engelm. in Emory's Rep. 157, **f. 11.**

O. angustata. Engelm. & Bigel. l. c. 39, **t. 7, f. 3, 4,** & **t. 22, f. 11** (seed). Engelm. Syn. Cact. 292 (36); Fl. Calif. 248. Walp. Ann. 5. 50.

O. arborescens. Engelm. in Wisliz. Rep. 6; Emory's Rep. 157, **f. 10**; Gray, Pl. Fendl. 52, & Pl. Lindh. 208; Syn. Cact. 307 (51); Cact. Mex. Bound. 58 & 77, **t. 75, f. 16, 17** (seeds); Ives' Rep. 14; King's Rep. 120. Salm, Cact. Hort. Dyck. 250. Lab. Monogr. Cact. 492. Walp. Ann. 3. 896 & 5. 56. Thurber in Gray, Pl. Thurb. 300. Engelm. & Bigel. Pac. R. Rep. 4. 51, **t. 17, f. 5, 6, t. 18, f. 4,** & **t. 24, f. 12** (seeds). Porter, Fl. Col. 49. Watson, Pl. Wheeler, 9.

Cactus cylindricus. James, Cat. 182; Long's Exp. 2. 208. Eat. & Wr. 164.
Cactus Bleo. Torrey, Ann. Lyc. N. Y. 2. 202.
O. exuviata, var. *stellata.* Lemaire, Man. Cact. 1845.
O. exuviata. Scheele, Roem. Texas, 434.

O. arbuscula. Engelm. Syn. Cact. 309 (53); Cact. Mex. Bound. 60. Walp. Ann. 5. 57.

O. arenaria. Engelm. Syn. Cact. 301 (45); Cact. Mex. Bound. 52 & 57, **t. 75, f. 15** (seed). Walp. Ann. 5. 53.

O. basilaris. Engelm. & Bigel. Pac. R. Rep. 4. 43, **t. 13, f. 1–5,** & **t. 23, f. 14** (seed). Engelm. Syn. Cact. 298 (42); Cact. Mex. Bound. 52; Ives' Rep. 14; King's Rep. 5. 118; Bot. Calif. 249. Walp. Ann. 5. 52. Watson, Pl. Wheeler, 9.

O. Bigelovii. Engelm. in Pac. R. Rep. 4. 50, **t. 19, f. 1–7**; Syn. Cact. 307 (51); Bot. Calif. 1. 250. Walp. Ann. 5. 56. Watson, Pl. Wheeler, 9.

O. — ? *n. sp.* Bigelow, Pac. R. Rep. 4. 13.

O. Camanchica. Engelm. & Bigel. Pac. R. Rep. 4. 40, **t. 9, f. 1–5,** & **t. 22, f. 12–15** (seed). Engelm. Syn. Cact. 291 (35). Walp. Ann. 5. 50. Porter, Fl. Col. 49.

O. chlorotica. Engelm. & Bigel. Pac. R. Rep. 4. 38, **t. 6, f. 1–3.** Engelm. Syn. Cact. 291 (35); Bot. Calif. 1. 248. Walp. Ann. 5. 49.

O. Tidballii. Bigelow, Pac. R. Rep. 4. 11.

O. clavata. Engelm. in Wisliz. Rep. 11; Gray, Pl. Fendl. 52; Syn. Cact. 302 (46). Salm, Cact. Hort. Dyck. 244. Lab. Monogr. Cact. 482. Walp. Ann. 3. 896. Engelm. & Bigel. Pac. R. Rep. 4. 48, **t. 22, f. 1–3,** & **t. 24, f. 6** (seed).

O. Davisii. Engelm. & Bigel. Pac. R. Rep. 4. 49, **t. 16.** Engelm. Syn. Cact. 305 (49). Walp. Ann. 5. 55.

O. echinocarpa. Engelm. & Bigel. l. c. **t. 18, f. 5–10,** & **t. 24, f. 8** (seeds). Engelm. Syn. Cact. 305 (49); Ives' Rep. 14; Bot. Calif. 1. 250. Walp. Ann. 5. 55. Parry, Am. Naturalist, 9. 20.

Var. **major.** Engelm. Syn. Cact. l. c.; Cact. Mex. Bound. 56.

O. Emoryi. Engelm. Syn. Cact. 303 (47); Cact. Mex. Bound. 53, **t. 70, 71**; Bot. Calif. 1. 249. Walp. Ann. 5. 54.

O. Engelmanni. Salm, Cact. Hort. Dyck. 235. Engelm. in Gray, Pl. Lindh. 207; Am. Journ. Sci. 2. 14. 338; Syn. Cact. 290 (34); Cact. Mex. Bound. 47, t. 75, **f. 1–4** (seeds); Bot. Calif. 1. 248. Scheer, Seem. Bot. Herald, 293. Walp. Ann. 2. 686 & 5. 49. Lab. Monogr. Cact. 460. Young, Fl. Texas, 278.

O. Lindheimeri. Engelm. in Gray, Pl. Lindh. 207. Walp. Ann. 2. 686.

? *O. dulcis.* Engelm. Cact. Mex. Bound. 48, **t. 75, f. 5–7** (seeds).

Var. **cyclodes.** Engelm. & Bigel. Pac. R. Rep. 4. 37, **t. 8, f. 1,** & **t. 22,** f. 8, 9 (seed). Engelm. Syn. Cact. 291 (35).

Var. **occidentalis.** Engelm. in Pac. R. Rep. 4, errata iii.; Syn. Cact. 290 (34); Bot. Calif. 1. 248.

O. occidentalis. Engelm. & Bigel. l. c. 4. 38, **t. 7, f. 1, 2,** & **t. 22, f. 10** (seed).

Var. (?) **littoralis.** Engelm. in Bot. Calif. 1. 248.

O. Ficus-Indica, Mill. Torr. & Gray, Fl. 1. 555. Engelm. Syn. Cact. 290 (34); Bot. Calif. 1. 248. Chapman, 144. Wood, Bot. & Fl. 132.

O. filipendula. Engelm. Syn. Cact. 294 (38); Cact. Mex. Bound. 51, t. 68. Walp. Ann. 5. 51.

O. fragilis. Haworth, Syn. Pl. Succ. Suppl. 82. DC. Prodr. 3. 472. Don, Mill. 3. 172. Pfeiffer, Allg. Gart. Zeit. 6. 276; Enum. Cact. 147. Torr. & Gray, Fl. 1. 555. Dietr. 3. 112. Spach, Hist. Veg. 13. 398. Walp. Rep. 2. 354. Salm, Cact. Hort. Dyck. 243. Lab. Monogr. Cact. 481. Trecul, Bull. Bot. Soc. France, 1. 306. Engelm. Pl. Upp. Miss. 192; Syn. Cact. 301 (45); Trans. Acad. St. Louis, 2. 200; King's Rep. 5. 119; Simpson's Rep. 442. Engelm. & Bigel. Pac. R. Rep. 4. 48, **t. 24, f. 5** (seed). Walp. Ann. 5. 54.

Cactus fragilis. Nutt. Genera, 1. 296. James, Long's Exped. 2. 138. Spreng. Syst. 2. 497. Torrey, Ann. Lyc. N. Y. 2. 202. Eat. & Wr. 163.

? *O. brachyarthra.* Engelm. & Bigel. Pac. R. Rep. 4. 47, **t. 12, f. 9.** Engelm. Syn. Cact. 302 (46). Walp. Ann. 5. 54.

O. fulgida. Engelm. Syn. Cact. 306 (50); Cact. Mex. Bound. 57, **t. 75,** f. 18 (seed); Bot. Calif. 1. 250 (as *O. fulgens*). Walp. Ann. 5. 56.

O. fusco-atra. Engelm. Pac. R. Rep. 4, **t. 11, f. 4**; Syn. Cact. 297 (41). Walp. Ann. 5. 52.

O. Grahami. Engelm. Syn. Cact. 304 (48); Cact. Mex. Bound. 55, **t. 72.** Walp. Ann. 5. 55.

O. hystricina. Engelm. & Bigel. Pac. R. Rep. 4. 44, **t. 15, f. 5–7,** & **t. 23,** f. 15 (seed); Syn. Cact. 299 (43); Ives' Rep. 14; Trans. Acad. St. Louis, 2. 200; King's Rep. 5. 119; Simpson's Rep. 441. Walp. Ann. 5. 53.

O. Kleiniæ. DC. Rev. Cact. 118. Pfeiff. Enum. Cact. 171. Salm. Cact. Hort. Dyck. 250. Walp. Rep. 2. 353. Engelm. Cact. Mex. Bound. 77.

O. Wrightii. Engelm. Syn. Cact. 308 (52); Cact. Mex. Bound. 59 & 77. Walp. Ann. 5. 57.

O. leptocaulis. DC. Rev. Cact. 118. Pfeiffer, Enum. Cact. 173. Walp. Rep. 2. 353. Salm, Cact. Hort. Dyck. 250. Lab. Monogr. Cact. 493. Scheer, Seem. Bot. Herald, 293. Engelm. in Bot. Calif. 1. 250.

O. fragilis, var. *frutescens*. Engelm. Pl. Lindh. 245 (37).

O. frutescens. Engelm. in Wisliz. Rep. 28; Gray, Pl. Lindh. 208; Syn. Cact. 309 (53); Cact. Mex. Bound. 60 & 77; King's Rep. 5. 120. Scheele, Roem. Texas, 434. Salm, Cact. Hort. Dyck. 251. Lab. Monogr. Cact. 494. Scheer, Seem. Bot. Herald, 293. Torr. & Gray, Pac. R. Rep. 2. 165. Engelm. & Bigel. Pac. R. Rep. 4. 53, **t. 20, f. 2, 3,** & **t. 24, f. 16–18** (seed). Walp. Ann. 5. 57. Gray, Hall's Pl. Texas, 9.

Var. **brevispina.**

? *O. gracilis*. Mart. Hort. Monac.; Pfeiffer, Enum. Cact. 172. Walp. l. c. Salm, Cact. Hort. Dyck. 251.

? *O. virgata*. Hort. Vindob.

O. frutescens, var. *brevispina*. Engelm. Pac. R. Rep. 4. 56, **t. 20, f. 4, 5,** & **t. 24, f. 19** (seed); Syn. Cact. 309 (53). Walp. Ann. 5. 57.

Var. **vaginata.**

O. vaginata. Engelm. in Wisliz. Rep. 16; Emory's Rep. 158, **f. 12**; Syn. Cact. 309 (53). Walp. Ann. 3. 897 & 5. 57. Engelm. & Bigel. Pac. R. Rep. 4. 52, **t. 20, f. 1,** & **t. 24, f. 13–15** (seeds).

O. macrocentra. Engelm. Syn. Cact. 292 (36); Cact. Mex. Bound. 49, **t. 75, f. 8** (seed). Walp. Ann. 5. 50.

O. mamillata. Schott; Engelm. Syn. Cact. 308 (52); Cact. Mex. Bound. 58, **t. 75, f. 19** (seed); Bot. Calif. 1. 250. Walp. Ann. 5. 57.

O. microdasys. Lehm. Ind. Sem. Hamb. 1827, 16; Act. Acad. Leop. 16. 317 (Pug. Pl. 1. 11 & 2. 5). Pfeiffer, Enum. Cact. 154. Walp. Rep. 2. 348. Salm, Cact. Hort. Dyck. 241. Lab. Monogr. Cact. 471. Engelm. Syn. Cact. 298 (42). (North-eastern Mexico.)

O. pulvinata. DC. Rev. Cact. 119.

O. Missouriensis. DC. Prodr. 3. 472. Salm, Hort. Dyck. 363; Cact. Hort. Dyck. 67. Don, Mill. 3. 172. Torr. & Gray, Fl. 1. 555, in part. Pfeiffer, Enum. Cact. 158. Walp. Rep. 2. 349; Ann. 5. 53. Dietr. 3. 114. Torrey, Frem. Rep. 90; Emory's Rep. 408. Spach, Hist. Veg. 13. 405. Engelm. Pl. Lindh. 38; Pl. Upp. Miss. 192; Syn. Cact. 299 (43); King's Rep. 5. 118; Hayd. Rep. 1871, 483; Simpson's Rep. 442. Lab. Monogr. Cact. 461. Engelm. & Bigel. Pac. R. Rep. 4. 44, **t. 14, f. 1–3,** & **t. 23, f. 16** (seed). Gray, Pac. R. Rep. 12. 43; Proc. Acad. Philad. 1863, 61; Manual, 185. Pl. Bourgeau, 256. Porter, Fl. Col. 49. Helmsley, Garden, 11. 275.

Cactus ferox. Nutt. Genera, 1. 296, not Willd. James, Long's Exped. 2. 140 & 156. Torrey, Ann. Lyc. N. Y. 2. 202. Eat. & Wr. 163.

O. polyacantha. Haworth, Syn. Pl. Succ. Suppl. 82.

O. media. Haworth, Syn. Pl. Succ. Suppl. 82; fide Salm, Hort. Dyck. 363. Pfeiffer, Enum. Cact. 158. Dietr. 3. 114. Walp. Rep. 2. 350.

? *O. splendens*. Hort. Angl.; Pfeiffer, l. c. 159.

O. Missouriensis, var. *elongata*. Salm, Cact. Hort. Dyck. 67.

Var. **platycarpa.** Engelm. Pac. R. Rep. 4. 46, **t. 14, f. 4,** & **t. 23, f. 17** (seed); Syn. Cact. 300 (44). Walp. l. c.

Var. **microsperma.** Engelm. ll. cc., **t. 14, f. 5–7,** & **t. 24, f. 1, 2** (seeds). Walp. l. c.

Var. **albispina.** Engelm. ll. cc. **t. 14, f. 8–10,** & **t. 23, f. 18** (seed); Simpson's Rep. 442. Walp. Ann. 5. 53.

Var. **trichophora.** Engelm. l. c. **t. 15, f. 1–4,** & **t. 23, f. 19** (seed); Syn. Cact. 44. Walp. l. c.

O. Mohavensis. Engelm. & Bigel. Pac. R. Rep. 4. 40, **t. 9, f. 6–8**; Syn. Cact. 293 (37); Bot. Calif. 1. 248. Walp. Ann. 5. 50.

O. Parryi. Engelm. in Am. Journ. Sci. 2. 14. 339; Syn. Cact. 303 (47); Cact. Mex. Bound. 53; Bot. Calif. 1. 249. Engelm. & Bigel. l. c. 48, **t. 22, f. 4–7**, & **t. 24, f. 7** (seed). Walp. Ann. 5. 54.

O. Pes-Corvi. LeConte; Chapman, 145. Engelm. in Proc. Am. Acad. 3. 346; Trans. Acad. St. Louis, 2. 204; Simpson's Rep. 442. Wood, Bot. & Fl. 132.

O. phæacantha. Engelm. in Gray, Pl. Fendl. 51; Syn. Cact. 292 (36); Cact. Mex. Bound. 49, **t. 75, f. 9–13** (seed). Walp. Ann. 2. 686 & 5. 50.

Var. **major.** Engelm. & Bigel. Pac. R. Rep. 4. 40. Engelm. Syn. Cact. 273 (37).

O. polyantha. Haworth, Syn. Pl. Succ. 190. DC. Prodr. 3. 472. Pfeiff. Enum. 163. Walp. Rep. 2. 351. Chapman, 145. Wood, Bot. & Fl. 132.

Cactus polyanthus. Sims, Bot. Mag. **t. 2691.** DC. Pl. Grass. **t. 138.**

O. procumbens. Engelm. & Bigel. Pac. R. Rep. 4. 39, **t. 6, f. 4, 5.** Engelm. Syn. Cact. 292 (36). Walp. Ann. 5. 49.

O. prolifera. Engelm. in Am. Journ. Sci. 2. 14. 338; Syn. Cact. 306 (50); Cact. Mex. Bound. 56; Bot. Calif. 250. Walp. Ann. 5. 56.

O. pulchella. Engelm. in Trans. Acad. St. Louis, 2. 201; King's Rep. 5. 119; Bot. Calif. 1. 249; Simpson's Rep. 443, **t. 3.**

O. Rafinesquii. Engelm. Pac. R. Rep. 4. 41, **t. 10, f. 3–5**, & **t. 22, f. 7, 8** (seeds); Syn. Cact. 295 (39); Torrey Bot. Bull. 2. 34. Walp. Ann. 5. 51. Lemaire, Ill. Hort. 15, Misc. 49, **fig.** Haage & Schmidt, Rev. Hort. 1868, 90, **f. 10, 11.** Gray, Manual, 185. Porter, Fl. Col. 49. Peck, Torrey Bot. Bull. 2. 37. Helmsley, Garden, 11. 274.

Cactus Opuntia. Torrey, Fl. U. S. 466, in part. Audubon, Birds, **t. 69.** Bigel. Fl. Bost. 3 ed. 203.

O. mesacantha & *cæspitosa.* Raf. in Seringe, Bull. Bot. Gen. 1830, 216 (Litt.-Ber. zu Linnæa, 1833, 81); Fl. Med. 2. 247. Pfeiffer, Enum. Cact. 146. Walp. Rep. 2. 346.

O. vulgaris. Beck, Bot. 135, in part. Torr. & Gray, Fl. 1. 555, in part. Torrey, Fl. N. Y. 1. 245. Emerson, Trees of Mass. 424. Parry, Pl. Minn. 612.

O. vulgaris, var. (?) *Rafinesquii.* Gray, Manual, 2 ed. 136.

Var. **microsperma.** Engelm. in Pac. R. Rep. 4. 41; Syn. Cact. 295 (39).

Var. **minor.** Engelm. in Pac. R. Rep. 4. 41, **t. 11, f. 1.**

Var. (?) **grandiflora.** Engelm. l. c. **t. 11, f. 2, 3**; Syn. Cact. l. c.

O. sp. Engelm. Pl. Lindh. 246 (38).

O. intermedia. Engelm. in Gray, Pl. Lindh. 206.

Var. (?) **cymochila.** Engelm. & Bigel. l. c. 42, **t. 12, f. 1–3**, & **t. 23, f. 10–12** (seed). Engelm. Syn. Cact. l. c.

Var. (?) **stenochila.** Engelm. & Bigel. l. c. 43, **t. 12, f. 4–6**, & **t. 23, f. 9** (seed). Engelm. Syn. Cact. 296 (40).

Var. (?) **macrorhiza.** Engelm. Syn. Cact. 296 (40).

O. macrorhiza. Engelm. in Gray, Pl. Lindh. 206; Cact. Mex. Bound. 51, t. 69. Salm, Cact. Hort. Dyck. 243. Lab. Monogr. Cact. 477. Young, Fl. Texas, 278.

Var. (?) **fusiformis.** Engelm. & Bigel. Pac. R. Rep. 4. 43, **t. 12, f. 7, 8**, & **t. 23, f. 6** (seed). Engelm. Pl. Upp. Miss. 192; Syn. Cact. 307 (41).

O. rufida. Engelm. Syn. Cact. 298 (42); Cact. Mex. Bound. 51. Walp. Ann. 5. 52.

O. rutila. Nutt.; Torr. & Gray, Fl. 1. 555. Dietr. 3. 116. Gray, Proc. Acad. Philad. 1863, 61. Engelm. in King's Rep. 5. 119; Bot. Calif. 1. 248.

O. erinacea. Engelm. & Bigel. Pac. R. Rep. 4. 47, **t. 13, f. 8–11,** & **t. 24, f. 4** (seed). Engelm. Syn. Cact. 301 (45); King's Rep. 5. 119. Walp. Rep. 5. 53.

O. Schottii. Engelm. Syn. Cact. 304 (48); Cact. Mex. Bound. 54, **t. 73, f. 1–4.** Walp. Ann. 5. 54.

O. serpentina. Engelm. in Am. Journ. Sci. 2. 14. 338; Syn. Cact. 306 (50); Cact. Mex. Bound. 56; Bot. Calif. 1. 250. Engelm. & Bigel. Pac. R. Rep. 4. 50. Walp. Ann. 5. 55.

? *Cereus* (?) *Californicus.* Torr. & Gray, Fl. 1. 555. Engelm. in Am. Journ. Sci. 2. 14. 338.

O. setispina. Engelm.; Salm, Cact. Hort. Dyck. 239. Lab. Monogr. Cact. 466. Engelm. Syn. Cact. 294 (38). Walp. Ann. 5. 51. (Chihuahua.)

O. sphærocarpa. Engelm. & Bigel. Pac. R. Rep. 4. 47, **t. 13, f. 6–7,** & **t. 24, f. 3** (seed). Engelm. Syn. Cact. 300 (44). Walp. Ann. 5. 53.

Var. (?) **Utahensis.** Engelm. in Hayd. Rep. 1871, 483.

O. stenopetala. Engelm. Syn. Cact. 289 (33); Cact. Mex. Bound. 46 & 76, **t. 66.** Walp. Ann. 5. 48. Young, Fl. Texas, 278. (Northern Mexico.)

O. Strigil. Engelm. Syn. Cact. 290 (34); Cact. Mex. Bound. 47, **t. 67.** Walp. Ann. 5. 48. Young, Fl. Texas, 278.

O. tenuispina. Engelm. Syn. Cact. 294 (38); Cact. Mex. Bound. 50, **t. 75, f. 14** (seed). Walp. Ann. 5. 50 (as *O. minor*).

O. tessellata. Engelm. Pac. R. Rep. 4. 52, **t. 21,** & **t. 24, f. 20** (seed); Syn. Cact. 309 (53); Cact. Mex. Bound. 60; Bot. Calif. 1. 249. Torrey, Pac. R. Rep. 5. 360. Walp. Ann. 5. 57. Watson, Pl. Wheeler, 9.

O. ramosissima. Engelm. in Am. Journ. Sci. 2. 14. 339.

O. Thurberi. Engelm. Syn. Cact. 308 (52); Cact. Mex. Bound. 59. Walp. Ann. 5. 57. (Sonora.)

O. tortispina. Engelm. & Bigel. Pac. R. Rep. 4. 41, **t. 8, f. 2, 3,** & **t. 23, f. 1–5** (seeds). Engelm. Syn. Cact. 293 (37); Simpson's Rep. 441. Walp. Ann. 5. 50.

O. Tuna, Mill. Engelm. in Wisliz. Rep. 16; Am. Journ. Sci. 2. 14. 338; Syn. Cact. 290 (34); Bot. Calif. 1. 248. Thurber in Gray, Pl. Thurb. 302. Bigelow, Pac. R. Rep. 4. 16.

O. Bonplandii. HBK. Nov. Gen. 6. 69.

O. tunicata. Otto; Pfeiffer, Enum. Cact. 170. Salm, Cact. Hort. Dyck. 249. Walp. Rep. 2. 352. (Northern Mexico.)

O. exuviata. DC. Rev. Cact. 118, excl. vars. Pfeiffer, l. c. Walp. l. c.

O. bulbispina. Engelm. Syn. Cact. 304 (48); Cact. Mex. Bound. 55, **t. 73, f. 5, 6.** Walp. Ann. 5. 55.

O. vulgaris. Haworth, Syn. Pl. Succ. 190. Salm, Obs. Bot. 9. DC. Prodr. 3. 474. Don, Mill. 3. 175. Beck, Bot. 135, in part. Torr. & Gray, Fl. 1. 555, in part. Dietr. 3. 112. Pfeiffer, Enum. Cact. 149. Walp. Rep. 2. 347. Loud. Arb. 2. 967, **f. 2474.** Engelm. Syn. Cact. 297 (41); Torrey, Bot. Bull. 2. 34. Scheele Roem. Texas, 435. Lab. Monogr. Cact. 477. Engelm. & Bigel. Pac. R. Rep. 4. 41, **t. 5, f. 2, 3,** & **t. 23, f. 1–5** (seeds). Walp. Ann. 5. 52. Chapman, 144. Gray, Manual, 185. Helmsley, Garden, 11. 274.

Cactus Opuntia. Linn. Spec. 468, in part. Walter, 146. Bartram, Trav. 163. Willd. Spec. 2. 943. Michx. Fl. 1. 282. Persoon, 2. 22. Pursh, 327. Nutt. Gen.

1. 296. DC. Pl. Grass. t. **138**. Sims, Bot. Mag. t. **2393**. Torrey, Fl. U. S. 466, in part. Spreng. Syst. 2. 497. Eat. & Wr. 163.

Opuntia Italica. Tenore.

Cactus humifusus. Raf. Ann. Nat. 1820, 15.

O. maritima & *humifusa.* Raf. Fl. Med. 2. 247.

O. intermedia. Salm, Hort. Dyck. 364; Cact. Hort. Dyck. 243. Pfeiffer, Enum. Cact. 150. Walp. Rep. 2. 347. Lab. Monogr. Cact. 476.

O. Whipplei. Engelm. & Bigel. Pac. R. Rep. 4. 50, t. **17**, f. **1–4**, & t. **24**, f. **9, 10** (seeds). Engelm. Syn. Cact. 307 (51). Walp. Ann. 5. 56.

Var. **spinosior.** Engelm. & Bigel. l. c. Engelm. Syn. Cact. l. c.; Cact. Mex. Bound. 57.

O. —— ? Brandegee, Fl. S. W. Col. 237.

O. Bonplandii; Tuna.
bulbispina; tunicata.
cæspitosa; Rafinesquii.
Californica; acanthocarpa.
dulcis; Engelmanni.
erinacea; rutila.
exuviata; arborescens, tunicata.
fragilis, frutescens & *gracilis;* leptocaulis.
humifusa; vulgaris.
intermedia; Rafinesquii, vulgaris.
Italica; vulgaris.
Lindheimeri; Engelmanni.
O. macrorhiza & *mesacantha;* Rafinesquii.
maritima; vulgaris.
media; Missouriensis.
occidentalis; Engelmanni.
polyacantha; Missouriensis.
pulvinata; microdasys.
ramosissima; tessellata.
splendens; Missouriensis.
Tidballii; chlorotica.
vaginata & *virgata;* leptocaulis.
vulgaris; Rafinesquii.
Wrightii; Kleiniæ.
——?; Bigelovii, Rafinesquii.

FICOIDEÆ.

MESEMBRYANTHEMUM CRYSTALLINUM, Linn. Torrey, Bot. Wilkes, 302. Brew. & Wats. Bot. Calif. 1. 251.

M. ÆQUILATERALE, Haworth. Brew. & Wats. l. c.

M. dimidiatum. Torrey, Pac. R. Rep. 4. 75. Newberry, same, 6. 67. Bolander, Cat. 8.

M. mutabile, Haw.? Torrey, Bot. Wilkes, 302.

MOLLUGO verticillata. Linn. Spec. 89. See syn. in Fenzl, Ann. Wien. Mus. 1. 378; Rohrbach, Mart. Fl. Bras. 14². 240. — Hill, Veg. Syst. 1[illegible], t. **15**, f. **5**. Walter, 83. Ait. Hort. Kew. 1. 124. Gaertn. Fruct. t. **130**. Lam. Dict. 4. 236. Willd. Spec. 1. 492. Michx. Fl. 1. 77. Persoon, 1. 112. Pursh, 92. Bigel. Fl. Bost. 48. Elliott, 1. 183. Roem. & Schult. Syst. 2. 871. Seringe, DC. Prodr. 1. 391. Torrey, Fl. U. S. 160; Fl. N. Y. 1. 104; Bot. Wilkes, 247. Beck, Bot. 50; Am. Journ. Sci. 10. 262. Cham. & Schlecht. in Linnæa, 1. 45. Hook. Fl. Bor.-Am. 1. 92; Lond. Journ. Bot. 1. 196. Torr. & Gray, Fl. 1. 176. Eat. & Wr. 321. Gray, Gen. Ill. 2. 14, t. **101**; Pl. Wright. 2. 19; Manual, 96; Proc. Am. Acad. 8. 378. Griseb. Fl. Brit. W. Ind. 56. Newberry, Pac. R. Rep. 6. 67. Chapman, 48. Baillon, Adansonia, 5. 381, t. **9**. Rohrbach, l. c. t. **55**, f. **2**. Brew. & Wats. Bot. Calif. 1. 252.

Pharnaceum Cerviana. Walter, 117.

Var. **scrobiculata.** Rohrbach, l. c. 242.

M. arenaria. HBK. Nov. Gen. & Spec. 6. 17. Walp. Rep. 2. 241. Seem. Bot. Herald, 270.

SESUVIUM pentandrum. Elliott, 1. 556. Fenzl, l. c. 2. 347. Eat. & Wr. 424. Gray, Gen. Ill. 1. 230, **t. 100**; Pl. Wright. 1. 13; Torr. Bot. Bull. 2. 48. Chapman, 44. Smith, Proc. Acad. Philad. 1867, 18. Merriam, Torr. Bot. Bull. 2. 41. Referred to *S. Portulacastrum* by Rohrbach, l. c. 312.

Pharnaceum maritimum. Walter, 117. Roem. & Schult. 6. 692. Dietr. 2. 1014.

Mollugo maritima. Seringe, DC. Prodr. 1. 393. Don, Mill. 1. 422.

S. sessile. Nutt. Genera, 1. 306. Torrey, Fl. U. S. 478. Eat. & Wr. 424.

S. Portulacastrum. Muhl. Cat. 50. Beck, Bot. 134, in part. Gray, Manual, 97.

S. Portulacastrum. Linn. Spec. 2 ed. 684. See syn. in DC. Prodr. 3. 453; Rohrbach, Mart. Fl. Bras. 14². 310. — Beck, Bot. 134, in part. Hook. Comp. Bot. Mag. 1. 46. Griseb. Fl. Brit. W. Ind. 57. Torrey, Pac. R. Rep. 5. 359. Gray, Ives' Rep. 8. Chapman, 44. Smith, Proc. Acad. Philad. 1867, 18. Rohrbach, l. c. **t. 70.** Brew. & Wats. Bot. Calif. 1. 251.

Portulaca Portulacastrum. Linn. Spec. 446.

? *Polycarpon uniflorum.* Walter, 83 (Torrey, Fl. U. S. 159).

S. pedunculatum. Persoon, 2. 39. Lam. Ill. **t. 434, f. 1.** Elliott, 1. 555. Nutt. in Am. Journ. Sci. 5. 295. Eat. & Wr. 424.

Var. **subsessile.** Gray, Pl. Wright. 1. 13 & 2. 19.

S. sessile. Persoon, 2. 39.

S. Portulacastrum. DC. Pl. Grass. **t. 9.** Torrey, Emory's Rep. 137; Mex. Bound. 38.

TRIANTHEMA monogynum. Linn. Mant. 69. See syn. in Willd. Spec. 2. 635. [Lam. Ill. **t. 375.**] — Gray, Pl. Wright. 1. 15 & 2. 20; Proc. Am. Acad. 5. 154. Griseb. Fl. Brit. W. Ind. 58. Torrey, Mex. Bound. 37.

UMBELLIFERÆ.

ÆGOPODIUM PODAGRARIA, Linn. Darling. Fl. Cestr. 2 ed. 105.

ÆTHUSA CYNAPIUM, Linn. Bigel. Fl. Bost. 2 ed. 113. Beck, Bot. 145. Torr. & Gray, Fl. 1. 618. Eat. & Wr. 116. Torrey, Fl. N. Y. 1. 274. Gray, Manual, 193.

AMMI MAJUS, Linn. DC. Prodr. 4. 112. Hook. Fl. Bor.-Am. 1. 261. Don, Mill. 3. 286. Torr. & Gray, Fl. 1. 606. Dietr. 2. 944. (Doubtful. Newfoundland; not recent.)

Sison majus. Eat. & Wr. 429.

ANGELICA arguta. Nutt.; Torr. & Gray, Fl. 1. 620. Walp. Rep. 2. 406. Torrey, Bot. Wilkes, 323.

A. Breweri. Gray, Proc. Am. Acad. 8. 348. Anderson, Cat. Pl. Nev. 121. Watson, King's Rep. 5. 126. Coulter, Hayd. Rep. 1872, 768. Brew. & Wats. Bot. Calif. 1. 265.

Archangelica hirsuta. Durand, Pl. Pratten. 89.

A. Curtisii. Buckley, Am. Journ. Sci. 1. 45. 173. Chapman, 164. Gray, Manual, 192.

A. genuflexa. Nutt.; Torr. & Gray, Fl. 1. 620. Walp. Rep. 2. 406. Gray, Proc. Am. Acad. 8. 385. Torrey, Bot. Wilkes, 322.

A. leporina. Watson, Proc. Am. Acad. 12. 252.

A. linearifloba. Gray, l. c. 7. 347. Brew. & Wats. Bot. Calif. 1. 266.

A. lucida. Linn. Spec. 251. Hill, Veg. Syst. 6. 14, t. **12, f. 2.** Crantz, Umbel. 65. Jacquin, Hort. Vindob. 3. 16, t. **24.** Lam. Dict. 1. 173. Ait. Hort. Kew. 1. 340. Willd. Spec. 1. 1430. Persoon, 1. 316. Spreng. Umbel. 63; Roem. & Schult. Syst. 6. 604; Syst. 1. 916. Torrey, Fl. U. S. 316. DC. Prodr. 4. 168. Hook. Fl. Bor.-Am. 1. 267. Beck, Bot. 147. Don, Mill. 3. 323. Torr. & Gray, Fl. 1. 620. Eat. & Wr. 127. Dietr. 2. 962. (A very obscure species; from Canada.)

A. pinnata. Watson, King's Rep. 5. 126.

A. tomentosa. Watson, Proc. Am. Acad. 11. 141. Brew. & Wats. l. c. 265.

A. verticillata. Hook. in Lond. Journ. Bot. 6. 233. Walp. Ann. 1. 350.

A. Wheeleri. Watson, Am. Naturalist, 7. 301; Pl. Wheeler, 9.

APIASTRUM angustifolium. Nutt.; Torr. & Gray, Fl. 1. 644. Walp. Rep. 2. 428. Torrey, Pac. R. Rep. 4. 94; Mex. Bound, 71, t. **28.** Boland. Cat. 13. Brew. & Wats. Bot. Calif. 1. 259.

Discopleura capillacea. Hook. & Arn. Bot. Beechey, 142.

? *Leptocaulis inermis.* Hook. & Arn. Bot. Beechey, 347.

Helosciadium leptophyllum, var. (?) *latifolium.* Hook. & Arn. l. c. Torr. & Gray, Fl. 1. 607.

A. latifolium. Nutt.; Torr. & Gray, Fl. 1. 644. Walp. l. c.

APIUM divaricatum. Benth. & Hook. Gen. Pl 1. 888 (referring the genus *Leptocaulis* to *Apium*). Wood, Bot. & Fl. 140.

Daucus divaricatus. Walter, 114. Gmelin, Syst. 474.

Sison pusillum. Michx. Fl. 1. 168. Pursh, 194. Elliott, 1. 356.

Ammi divaricatum. Persoon, 1. 308. Poir. Suppl. 1. 310. Muhl. Cat. 30.

Ligusticum pusillum. Persoon, 1. 315. Spreng. in Roem & Schult. Syst. 6. 555.

Sium pusillum. Poir. Suppl. 1. 622.

Æthusa divaricata. Spreng. Prodr. Umbel. 22. Nutt. Genera, 1. 187 & 190. Eat. & Wr. 116.

Sison divaricatus. Spreng. Spec. Umbel. 113; Roem. & Schult. Syst. 6. 411; Syst. 1. 887.

Leptocaulis divaricatus. DC. Mem. Umbel. 39, t. **10, f. A**; Prodr. 4. 107. Don, Mill. 3. 284. Torr. & Gray, Fl. 1. 608. Dietr. 2. 942. Eat. & Wr. 297. Chapman, 161. Wood, Cl.-Book, 387. A. H. Smith, Proc. Acad. Philad. 1867, 19. Gray, Hall's Pl. Texas, 11.

Leptocaulis diffusus. Nutt.; DC. Prodr. 4. 107. Don, Mill. 3. 284. Torr. & Gray, Fl. 1. 608. Dietr. 2. 942. Eat. & Wr. 297. Young, Fl. Texas, 298.

Spermolepis divaricata. Raf. in Bull. Bot. Genev. 1830, 214 (Litt.-Ber. zu Linnæa, 1833, 82).

Babiron divaricatum & *dichotomum.* Raf. New Flora, 4. 24.

A. echinatum. Benth. & Hook. l. c.

Leptocaulis echinatus. Nutt.; DC. Prodr. 4. 107. Don, Mill. 3. 284. Torr. & Gray, Fl. 1. 609. Dietr. 2. 944. Eat. & Wr. 297. Engelm. & Gray, Pl. Lindh. 10. Torrey, Marcy's Rep. 286; Mex. Bound. 70. Gray, Pl. Wright. 2. 65; Hall's Pl. Texas, 11. Young, Fl. Texas, 298.

A. GRAVEOLENS, Linn. Hook. & Arn. Bot. Beechey, 142. Nutt. Pl. Gambel. in Journ. Acad. Philad. 1. 193. Torrey, Pac. R. Rep. 4. 91. Benth. & Hook. Gen. Pl. 1. 888. Brew. & Wats. Bot. Calif. 1. 258.

A. leptophyllum. F. Muel.; Benth. Fl. Austral. 3. 372. See syn. in DC. Rapp. Pl. Rar. Jard. Gen. 3. 7, & Prodr. 4. 105 (under *Helosciadium*). — Benth. & Hook. l. c. Wood, Bot. & Fl. 140.

Sison Ammi. Linn. Spec. 252? Jacquin, Hort. Vindob. 2. 95, **t. 200.**

Æthusa leptophylla. Spreng. Prodr. Umbel. 22. Nutt. Genera, 1. 190. Eat. & Wr. 116.

Heloscíadium leptophyllum. DC. Prodr. 4. 105. Hook. Comp. Bot. Mag. 1. 47. Torr. & Gray, Fl. 1. 607. Dietr. 2. 943. Eat. & Wr. 257. Darby, Bot. 331. Griseb. Fl. Brit. W. Ind. 308. Wood, Cl.-Book, 386. Reichenb. f. Icon. Fl. Germ. 21. 8, **t. 1850, f. 1–8.** Gray, Hall's Pl. Texas, 11.

A. NODIFLORUM, Benth. & Hook. Wood, Bot. & Fl. 140. (To be excluded; seen only by Walter.)

Sium nodiflorum, Linn. Walter, 115. Elliott, 1. 355.

Heloscíadium nodiflorum, Koch. Torr. & Gray, Fl. 1. 606. Eat. & Wr. 266. Chapman, 162. Wood, Cl.-Book, 386.

A. patens.

Leptocaulis patens. Nutt.; DC. Prodr. 4. 107. Don, Mill. 3. 284. Torr. & Gray, Fl. 1. 609. Dietr. 2. 984. Eat. & Wr. 297. Gray, Pl. Wright. 2. 65; Hall's Pl. Texas, 11. Engelm. Pl. Upp. Miss. 193. Young, Fl. Texas, 298.

? *Leptocaulis inermis.* Nutt.; DC. Mem. Umbel. 39, **t. 10, f. B**; Prodr. 4. 107. Don, Mill. 3. 283. Torr. & Gray, Fl. 1. 608. Dietr. 2. 944. Eat. & Wr. 297.

A. Popei. Gray, Proc. Am. Acad. 7. 343; Hall's Pl. Texas, 11.

Ammoselinum Popei. Torr. & Gray, Pac. R. Rep. 2. 165. Benth. & Hook. Gen. Pl. 1. 1009.

ARCHANGELICA atropurpurea. Hoffman, Umbel. 161, & 2 ed. 169. Don, Mill. 3. 324. Torr. & Gray, Fl. 1. 621. Torrey, Fl. N. Y. 1. 276. Darling. Fl. Cestr. 2 ed. 101. Gray, Am. Journ. Sci. 2. 33. 408; Manual, 193.—The genus is referred to *Angelica* by Maximowicz, Bull. Acad. Petersb. 19. 273 (Mel. Biol. 9. 250).

Angelica atropurpurea. Linn. Spec. 251. Hill, Veg. Syst. 6. 14, **t. 12, f. 1.** Crantz, Umbel. 65. Lam. Dict. 1. 173. Ait. Hort. Kew. 1. 349. Willd. Spec. 1. 1430; Enum. 313. Persoon, 1. 315. Pursh, 193. Spreng. in Roem. & Schult. Syst. 6. 603; Syst. 1. 915. Torrey, Fl. U. S. 316. DC. Prodr. 4. 168. Hook. Fl. Bor.-Am. 1. 267. Beck, Bot. 147. Darling. Fl. Cestr. 193. Dietr. 2. 962. Eat. & Wr. 127.

Angelica triquinata. Michx. Fl. 1. 167. Persoon, 1. 316. Pursh, 193. Bigel. Fl. Bost. 68. Barton, Comp. Fl. Phil. 1. 140.

Imperatoria lucida. Nutt. Genera, 1. 181.

A. dentata. Chapman; Torr. & Gray, Fl. 1. 622. Walp. Rep. 2. 407. Chapman, 164. Wood, Cl.-Book, 381; Bot. & Fl. 137.

A. Gmelini. DC. Prodr. 4. 170. See syn. in Ledeb. Fl. Ross. 2. 361 (as *Cœlopleurum*); Hook. f. Arct. Pl. 292 & 300, referring it to *A. officinalis.*—Hook. Fl. Bor.-Am. 1. 267. Don, Mill. 3. 324. Torr. & Gray, Fl. 1. 621. Gray, Am. Journ. Sci. 2. 33. 408; Proc. Acad. Philad. 1863, 63; Manual, 193. Rothr. Fl. Alask. 447; Pl. Wheeler, 40. Benth. & Hook. Gen. Pl. 1. 1009. Porter, Hayd. Rep. 1870, 476, & 1871, 484; Fl. Col. 52. Watson, King's Rep. 5. 127.

Angelica Archangelica. Schrank, Pfl. Lab. 13. Cham. & Schlecht. in Linnæa, 1. 394. Eat. & Wr. 127.

A. officinalis. Hook. Fl. Bor.-Am. 1. 267. Meyer, Pl. Lab. 67. Torr. & Gray, Fl. 1. 621. Lange, Fl. Grœnl. 127. Rothr. Fl. Alask. 447.

Pleurospermum Gmelini. Bongard, Veg. Sitch. 141.

Ligusticum Scoticum, var. Fisch. & Mey. Ind. Sem. Petrop. 1. 11. Treviranus, Bot. Zeit. 19. 13.

Angelica officinalis. Hook. in Journ. Linn. Soc. 1. 157.

Ligusticum actæifolium. Bigel. Fl. Bost. 3 ed. 118.

Archangelica peregrina. Nutt.; Torr. & Gray, Fl. 1. 622. Walp. Rep. 2. 407. Gray, Manual, 1 ed. 159 & 698. Cooper, Pac. R. Rep. 12. 62. Wood, Cl.-Book, 381; Bot. & Fl. 137.

Angelica Gmelini. Wormsk.; Eat. & Wr. 127.

Cœlopleurum Gmelini. Ledeb. Fl. Ross. 2. 361. Walp. Rep. 5. 920.

A. hirsuta. Torr. & Gray, Fl. 1. 622. Torrey, Fl. N. Y. 1. 277. Darling. Fl. Cestr. 2 ed. 102. Chapman, 164. Gray, Manual, 193.

Ferula villosa. Walter, 115. Pursh, 192. Poir. Suppl. 5. 670. Elliott, 1. 351. Spreng. in Roem. & Schult. Syst. 6. 598; Syst. 1. 914.

Cicuta venenosa. Greenway, Am. Phil. Soc. Trans. 3. 234.

Angelica hirsuta. Muhl. Cat. 2 ed. 30.

Pastinaca triquinata. Spreng. Spec. Umbel. 68, **t. 6, f. 12.**

Angelica triquinata. Nutt. Genera, 1. 186. Spreng. in Roem. & Schult. Syst. 6. 604; Syst. 1. 916. Elliott, 1. 352. Torrey, Fl. U. S. 315. DC. Prodr. 4. 168. Hook. Fl. Bor.-Am. 1. 267. Don, Mill. 3. 323. Beck, Bot. 147. Darling. Fl. Cestr. 193. Dietr. 2. 962. Eat. & Wr. 127.

Oxypolis triquinata. Raf. in Bull. Bot. Soc. Genev. 1830, 214 (Litt.-Ber. zu Linnæa, 1833, 82); Med. Bot. 2. 250.

ARCHEMORA Fendleri. Gray, Pl. Fendl. 56; Proc. Acad. Philad. 1863, 63. Walp. Ann. 2. 710. Porter, Fl. Col. 52. Rothr. Pl. Wheeler, 40. Watson, Proc. Am. Acad. 11. 145. — The genus is referred to *Peucedanum* by Benth. & Hook. Gen. Pl. 1. 920.

Berula angustifolia. Gray, Am. Journ. Sci. 2. 33. 408.

A. rigida. DC. Mem. Umbel. 52; Prodr. 4. 188. Don, Mill. 3. 338. Beck, Bot. 148. Darling. Fl. Cestr. 195. Torr. & Gray, Fl. 1. 631. Eat & Wr. 132. Torrey, Fl. N. Y. 1. 278, **t. 36.** Bertol. Bot. Misc. 10. 31. Parry, Pl. Minn. 613. Chapman, 165. Lesqx. Fl. Ark. 363. Gray, Manual, 192. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 328.

Sium rigidius. Linn. Spec. 251. Hill, Veg. Syst. 6. 34, **t. 32, f. 1.** Lam. Dict. 1. 406. Walter, 114. Ait. Hort. Kew. 1. 350. Willd. Spec. 1. 1433; Enum. 314. Persoon, 1. 316. Pursh, 194. Elliott, 1. 353.

Œnanthe rigida. Crantz, Umbel. 85. Barton, Comp. Fl. Philad 1. 142. Nutt. Genera, 1. 189.

Sison marginatum. Michx. Fl. 1. 168. Persoon, 1. 317. Pursh, 194.

Sium marginatum. Poir. Suppl. 1. 622.

Sium denticulatum. Baldwin; Elliott, 1. 354 (Spreng. Neue Entdeck. 2. 194). Spreng. Syst. 1. 905. Don, Mill. 3. 338.

Sium tricuspidatum. Elliott, 1. 354. Beck, Am. Journ. Sci. 1. 11. 175.

Pastinaca rigida. Spreng. in Roem. & Schult. 6. 586. Torrey, Fl. U. S. 314.

A. denticulata. DC. Prodr. 4. 188. Hook. Comp. Bot. Mag. 1. 47.

A. tricuspidata. DC. l. c. Don, Mill. 3. 338. Eat. & Wr. 132.

Oxypolis rigida, denticulata & tricuspidata. Raf. in Bull. Bot. Soc. Genev. 1830, 214 (Litt.-Ber. zu Linnæa, 1833, 82).

Var. **ambigua.** Torr. & Gray, Fl. 1. 631. Torrey, l. c. Wood, Cl.-Book, 380.

Sium longifolium. Pursh, 194.

Œnanthe ambigua. Nutt. Genera, 1. 189. Barton, l. c. Spreng. in Roem. & Schult. Syst. 6. 421 (under *Œ. gymnorhiza*).

Pastinaca ambigua. Spreng. l. c. 6. 586. Torrey, Fl. U. S. 314. Dietr. 2. 970.

A. ambigua. DC. Prodr. 4. 188. Don, l. c. Beck, Bot. 148. Eat. & Wr. 132.

A. ternata. Nutt.; Torr. & Gray, l. c. Chapman, 163. Wood, Cl.-Book, 380.

Peucedanum ternatum. Nutt. Genera, 1. 182. Spreng. in Roem. & Schult. Syst. 6. 565 (under *P. officinale*). DC. Prodr. 4. 182. Don, Mill. 3. 335. Croom, Am. Journ. Sci. 1. 28. 165. Dietr. 2. 968. Eat. & Wr. 349. Wood, Bot. & Fl. 136.

Peucedanum officinale. Spreng. Syst. 1. 911, in part.

Sataria linearis. Raf. New Flora, 4. 21.

Neurophyllum longifolium. Torr. & Gray, Fl. 1. 613. Walp. Rep. 5. 862. Darby, Bot. 333. Wood, Cl.-Book, 387.

BERULA angustifolia. Koch, Deutsch. Fl. 2. 455. See syn. in Willd. Spec. 1. 1431 (as *Sium*); DC. Prodr. 4. 125; Ledeb. Fl. Ross. 2. 258. — Gray, Pl. Fendl. 55; Pl. Wright. 2. 65; Journ. Bost. Soc. Nat. Hist. 7. 146. Torrey, Sitgr. Rep. 160; Pac. R. Rep. 4. 92; Mex. Bound. 70; Bot. Wilkes, 317. Brew. & Wats. Bot. Calif. 1. 260.

Sium angustifolium. Linn. Spec. 2 ed. 1672. Engelm. Pl. Upp. Miss. 193. Benth & Hook. Gen. Pl. 1. 893. Gray, Manual, 196. Watson, King's Rep. 5. 121; Pl. Wheeler, 9. Porter, Hayd. Rep. 1871, 481; Fl. Col. 50. Coulter, Hayd. Rep. 1872, 767. Rothr. Pl. Wheeler, 40.

Sium pusillum. Nutt.; Torr. & Gray, Fl. 1. 611. Walp. Rep. 2. 396.

? *Helosciadium* (?) *Californicum.* Hook. Fl. Bor.-Am. 1. 260. Don, Mill. 3. 282. Hook. & Arn. Bot. Beechey, 142. Torr. & Gray, Fl. 1. 607. Walp. Rep. 2. 392. Eat. & Wr. 267. Benth. & Hook. Gen. Pl. 1. 893. Brew. & Wats. l. c.

Sium (?) *incisum.* Torrey, Frem. Rep. 90.

BIFORA Americana. Benth. & Hook. Gen. Pl. 1. 926. Gray, Hall's Pl. Texas, 11.

Atrema Americana. DC. Mem. Umbel. 71, **t. 18**; Prodr. 4. 250. Don, Mill. 3. 382. Torr. & Gray, Fl. 1. 643. Dietr. 2. 900. Eat. & Wr. 151. Gray, Pl. Lindh. 212; Pl. Wright. 2. 65.

BOWLESIA lobata. Ruiz & Pavon, Fl. Peruv. 3. 28, **t. 251**. DC. Prodr. 4. 75. Hook. & Arn. Bot. Beechey, 347. Torr. & Gray, Fl. 1. 601. Gay, Fl. Chil. 3. 77. Torrey, Mex. Bound. 70. Gray, Ives' Rep. 15. Trevir. in Bot. Zeit. 19. 9. Boland. Cat. 13. Brew. & Wats. Bot. Calif. 1. 255.

B. tenera. Spreng. Syst. 1. 860. DC. Prodr. 4. 75. Hook. & Arn. Bot. Misc. 3. 340. Torr. & Gray, Fl. 1. 601. Gay, Fl. Chil. 3. 76. Gray, Pl. Wright. 2. 64.

B. geraniifolia. Cham. & Schlecht. in Linnæa, 1. 382. DC. Prodr. 4. 75.

B. nodiflora. Presl; DC. Prodr. 4. 75.

BUPLEURUM ranunculoides. Linn. Spec. 237. See syn. in DC. Prodr. 4. 131; Regel & Till. Fl. Ajan. 96, Koch, Fl. Germ. 250. — Hook. Fl. Bor.-Am. 1. 263. Don, Mill. 3. 299. Torr. & Gray, Fl. 1. 609. Eat. & Wr. 162. Ledeb. Fl. Ross. 2. 265. Seem. Bot. Herald, 32. Hook. f. Fl. Arct. 292. Rothr. Fl. Alask. 447. Porter, Hayd. Rep. 1871, 484. Coulter, same, 1872, 767.

B. angulosum. Cham. & Schlecht. in Linnæa, 1. 383; not Spreng. Hook. & Arn. Bot. Beechey, 124.

B. rotundifolium, Linn. Beck, Bot. 145. Darling. Fl. Cestr. 191. Torr. & Gray, Fl. 1. 609. Torrey, Fl. N. Y. 1. 206. Chapman, 162. Gray, Manual, 195.

CARUM Carui, Linn. Hook. Fl. Bor.-Am. 1. 261. Hook. f. Arct. Pl. 293. Pl. Bourgeau, 257.

C. Gairdneri. Benth. & Hook. Gen. Pl. 1. 891. Anderson, Cat. Pl. Nev. 121. Porter, Hayd. Rep. 1870, 476; 1871, 484. Watson, King's Rep. 5. 121; Pl. Wheeler, 9. Coulter, Hayd. Rep. 1872, 767. Gray, Proc. Am. Acad. 8. 385. Brew. & Wats. Bot. Calif. 1. 259.

Osmorhiza (?) *edulis*. Raf. Med. Bot. 2. 249.

Atenia Gairdneri. Hook. & Arn. Bot. Beechey, 349.

Edosmia Gairdneri. Nutt.; Torr. & Gray, Fl. 1. 612. Walp. Rep. 5. 862. Torrey, Frem. Rep. 90; Bot. Wilkes, 320. Hook. in Lond. Journ. Bot. 6. 233. Benth. Pl. Hartw. 313. Durand, Pl. Pratten. 89. Newberry, Pac. R. Rep. 6. 75. Cooper, same, 12. 62. Gray, Proc. Bost. Soc. Nat. Hist. 7. 146; Proc. Am. Acad. 7. 344.

Peucedanum triternatum. Torr. & Gray, Pac. R. Rep. 2. 121.

C. (?) **Hallii.**

Seseli Hallii. Gray, Proc. Am. Acad. 8. 288. Porter, Fl. Col. 52.

Musenium Greenei. Gray, l. c. 387. Porter, l. c. 51.

C. Kelloggii. Gray, Proc. Am. Acad. 7. 344. Boland. Cat. 13. Brew. & Wats. Bot. Calif. 1. 259.

CAUCALIS microcarpa. Hook. & Arn. Bot. Beechey, 348. Torr. & Gray, Fl. 1. 636. Walp. Rep. 2. 421. Boland. Cat. 14. Brew. & Wats. l. c. 272.

Daucus brachiatus. Torrey, Pac. R. Rep. 4. 93; not Sieb.

C. NODOSA, Huds. Gray, Hall's Pl. Texas, 11. Brew. & Wats. l. c.

C. tenerrima. Scheele, Linnæa, 25. 256.

CHÆROPHYLLUM procumbens. Crantz, Umbel. 77. Lam. Dict. 1. 685. Persoon, 1. 320. Pursh, 195. Nutt. Genera, 1. 194. Barton, Comp. Fl. Phil. 1. 145. Elliott, 1. 357. DC. Prodr. 4. 225. Don, Mill. 3. 365. Beck, Bot. 149. Darling. Fl. Cestr. 198. Torr. & Gray, Fl. 1. 637. Dietr. 2. 982. Eat. & Wr. 191. Nees, Pl. Neuwied, 10. Chapman, 165. Gray, Manual, 197; Hall's Pl. Texas, 11.

Scandix procumbens. Linn. Spec. 257. Hill, Veg. Syst. 6. 48, **t. 46, f. 4.** Willd. Spec. 1. 1452. Ait. f. Hort. Kew. 2. 152. Muhl. Cat. 31.

Myrrhis bifida. Spreng. Prodr. Umbel. 29. Muhl.; Nutt. Genera, 1. 192.

Myrrhis procumbens. Spreng. Pl. Min. Cog. pug. 2. 56; Spec. Umbel. 130; Roem. & Schult. Syst. 6. 516; Syst. 1. 903. Torrey, Fl. U. S. 309.

Var. **Shortii.** Torr. & Gray, Fl. 1. 637. Walp. Rep. 2. 422.

C. Tainturieri. Hook. Comp. Bot. Mag. 1. 47. Torr. & Gray, Fl. 1. 638. Walp. Rep. 2. 422. Chapman, 165. Wood, Cl.-Book, 384; Bot. & Fl. 138. Gray, Hall's Pl. Texas, 11.

Var. **[dasycarpum.]** Hook. l. c. Torr. & Gray, l. c. Gray, Pl. Lindh. 211.

C. SATIVUM, Lam. Gray, Manual, 197.

CICUTA bulbifera. Linn. Spec. 255. Hill, Veg. Syst. 6. 49, **t. 47, f. 2.** Crantz, Umbel. 99. Willd. Spec. 1. 1445. Michx. Fl. 1. 165. Persoon, 1. 318. Pursh, 195. Nutt. Genera, 1. 195. Barton, Comp. Fl. Phil. 1. 143. Spreng. in Roem. & Schult. Syst. 6. 453; Syst. 1. 894. Bigel. Fl. Bost. 2 ed. 115. Torrey, Fl. U. S. 308; Fl. N. Y. 1. 267. DC. Prodr. 4. 99. Hook. Fl. Bor.-Am. 1. 260. Don, Mill. 3. 276. Beck, Bot. 143. Torr. & Gray, Fl. 1. 610. Dietr. 2. 940. Eat. & Wr. 197. Gray, Manual, 196.

Cicutaria bulbifera. Lam. Dict. 2. 3.

Keraskomion bulbiferum. Raf. New Flora, 4. 21.

C. Bolanderi. Gray, Proc. Am. Acad. 11. 130. Brew. & Wats. Bot. Calif. 1. 261.

C. Californica. Gray, l. c. 7. 344. Boland. Cat. 13. Brew. & Wats. l. c.

C. maculata. Hook. & Arn. Bot. Beechey, 142? Benth. Pl. Hartw. 313.

C. maculata. Linn. Spec. 256. Hill, Veg. Syst. 6. 49, **t. 47, f. 3.** Crantz, Umbel. 99. Gaertn. Fruct. **t. 22.** Walter, 115. Willd. Spec. 1. 1446; Enum. 316. Persoon, 1. 318. Ait. f. Hort. Kew. 2. 149. Pursh, 195. Bigel. Fl. Bost. 70; Med. Bot. 1. 125, **t. 12,** & 3. 181. Hoffm. Umbel. 2 ed. 181. Nutt. Genera, 1. 191.

Elliott, 1. 357. Spreng. in Roem. & Schult. Syst. 6. 453; Syst. 1. 894. Rich. Frankl. Journ. Appx. 6. Torrey, Fl. U. S. 308; Fl. N. Y. 1. 267; Frem. Rep. 90; Mex. Bound. 70; Bot. Wilkes, 316. Raf. Med. Bot. 1. 107, **f. 22.** DC. Prodr. 4. 99. Hook. Fl. Bor.-Am. 1. 259; Comp. Bot. Mag. 1. 47. Don, Mill. 3. 276. Beck, Bot. 142. Darling. Fl. Cestr. 185. Lindl. Fl. Med. 34. Torr. & Gray, Fl. 1. 610. Dietr. 2. 940. Eat. & Wr. 197. Gray, Pl. Lindh. 210; Pl. Wright. 2. 65; Pl. Fendl. 55; Proc. Bost. Soc. 7. 146; Manual, 196. Engelm. Pl. Upp. Miss. 193. Chapman, 161. Hook. f. Arct. Pl. 293. Anderson, Cat. Pl. Nev. 121. Porter, Hayd. Rep. 1870, 476; Fl. Col. 49. Watson, King's Rep. 5. 121; Pl. Wheeler, 9. Coulter. Hayd. Rep. 1872, 767. Bailey, Am. Naturalist, 7. 9, **f. 4.** Brew. & Wats. Bot. Calif. 1. 260.

Cicutaria maculata. Lam. Dict. 2. 2; Ill. 2. 338, **t. 195, f. 2.**

? *Sium* (?) *Douglasii.* DC. Prodr. 4. 125. Hook. Fl. Bor.-Am. 1. 263. Don, Mill. 3. 295. Torr. & Gray, Fl. 1. 611. Dietr. 2. 948. Eat. & Wr. 430.

C. (?) **trachypleura.**

Thaspium montanum, var. *tenuiflorum.* Gray, Am. Journ. Sci. 2. 33. 408.

Thaspium trachypleurum. Gray, Proc. Acad. Philad. 1863, 63. Porter, Fl. Col. 52.

C. virosa. Linn. Spec. 255. See syn. in Willd. Spec. 1. 1445; DC. Prodr. 4. 99; Ledeb. Fl. Ross. 2. 241; Pritzel, Icon. Index, 1. 266 & 2. 79. — Rich. Frankl. Journ. Appx. 6. Hook. Fl. Bor.-Am. 1. 259; Lond. Journ. Bot. 6. 233. Torr. & Gray, Fl. 1. 610. Hook. f. Arct. Pl. 293. Pl. Bourgeau, 257. Reichenb. f. Icon. Fl. Germ. 21. 7, **t. 1853.**

CONIUM MACULATUM, Linn. Pursh, 195. Bigel. Fl. Bost. 68; Med. Bot. 1. 113, **t. 11.** Nutt. Genera, 1. 180. Torrey, Fl. U. S. 312; Fl. N. Y. 1. 282. Raf. Med. Bot. 1. 118, **f. 25.** Hook. Fl. Bor.-Am. 1. 272. Beck, Bot. 150. Darling. Fl. Cestr. 201. Torr. & Gray, Fl. 1. 640. Eat. & Wr. 205. Cooper, Pac. R. Rep. 12. 63. Gray, Struct. Bot. 426, **f. 845–850**; Manual, 198. Brew. & Wats. l. c. 258.

CORIANDRUM SATIVUM, Linn. Gray, Pl. Fendl. 57. Watson, l. c. 131.

CRANTZIA lineata. Nutt. Genera, 1. 178. DC. Prodr. 4. 71. Don, Mill. 3. 256. Beck, Bot. 141. Torr. & Gray, Fl. 1. 600. Torrey, Fl. N. Y. 1. 263. Walp. Rep. 2. 384. Weddell, Chlor. And. 2. 201, **t. 68.** Clos in Gay, Fl. Chil. 3. 126. Hook. f. Fl. Antarct. 1. 287, **t. 100.** Chapman, 159. Gray, Manual, 190; Proc. Am. Acad. 8. 385. Benth. Fl. Austral. 3. 374.

? *Hydrocotyle Chinensis.* Linn. Spec. 339. Willd. Spec. 1. 1364. Spreng. in Roem. & Schult. Syst. 6. 355; Syst. 1. 878.

Hydrocotyle lineata. Michx. Fl. 1. 162. Persoon, 1. 302. Pursh, 190. Richard, Hydrocot. 77, **t. 66, f. 38.** Elliott, 1. 347. Torrey, Fl. U. S. 304. Bigel. Fl. Bost. 3 ed. 115. Eat. & Wr. 277.

C. alternata. Hook. & Arn. in Hook. Bot. Misc. 3. 346. Torr. Bot. Wilkes, 313.

C. Schaffneriana. Schlecht. in Linnæa, 26. 370.

CRYPTOTÆNIA Canadensis. DC. Mem. Umbel. 42; Prodr. 4. 119. Hook. Fl. Bor.-Am. 1. 262; Comp. Bot. Mag. 1. 47. Don, Mill. 3. 291. Beck, Bot. 144. Darling. Fl. Cestr. 189. Torr. & Gray, Fl. 1. 613; Pac. R. Rep. 2. 127. Dietr. 2. 946. Eat. & Wr. 214. Torrey, Fl. N. Y. 1. 269. Parry, Pl. Minn. 613. Chapman, 161. Pl. Bourgeau, 257. Hance, Seem. Journ. Bot. 3. 340. Gray, Manual, 197.

Sison Canadense. Linn. Spec. 252. Hill, Veg. Syst. 6. 11, **t. 9, f. 3.** Alt. Hort. Kew. 1. 351. Willd. Spec. 1. 1436; Enum. 314. Michx. Fl. 1. 168. Hoffm. Umbel. 36. Bigel. Fl. Bost. 69.

Chærophyllum Canadense. Crantz, Umbel. 79. Persoon, 1. 320. Pursh, 195. Elliott, 1. 358.

Sium Canadense. Lam. Dict. 1. 407. Bigel. Fl. Bost. 2 ed. 114.

Myrrhis Canadensis. Gaertn. Fruct. 1. 109, **t. 23**. Nutt. Genera, 1. 192. Barton, Comp. Fl. Phil. 1. 141. Spreng. in Roem. & Schult. Syst. 6. 516; Syst. 1. 903. Torrey, Fl. U. S. 1. 310. Beck, Am. Journ. Sci. 1. 11. 175.

? *Cicuta perennans.* Walter, 116. Gmelin, Syst. 1. 485.

Scandix ternata. Moench, Meth. 101.

Conopodium Canadense. Koch, Umbel. 119.

? *Mesodiscus simplex & proliferus.* Raf. New Flora, 4. 20.

CYMOPTERUS alpinus. Gray, Am. Journ. Sci. 2. 33. 408 (Bull. Bot. Soc. Fr. 9. 679); Proc. Acad. Philad. 1863, 62. Porter, Hayd. Rep. 1871, 484; Fl. Col. 50. Rothr. Pl. Wheeler, 40.

——— ——— ? Torrey, Ann. Lyc. N. Y. 2. 207.

Oreoxis humilis. Raf.; Seringe, Bull. Bot. Soc. Genev. 1830, 214 (Litt.-Ber. zu Linnæa, 1833, 82).

C. (?) **anisatus.** Gray, Proc. Acad. Philad. 1863, 63. Watson, King's Rep. 5. 125. Porter, Fl. Col. 60.

C. terebinthinus, var. *fœniculaceus.* Gray, Am. Journ. Sci. 2. 33. 408.

C. campestris. Torr. & Gray, Fl. 1. 624. Walp. Rep. 2. 418.

C. cinerarius. Gray, Proc. Am. Acad. 6. 535. Anderson, Cat. Pl. Nev. 121. Brew. & Wats. Bot. Calif. 1. 267.

C. Fendleri. Gray, Pl. Fendl. 56; Pl. Thurb. 299. Walp. Ann. 2. 715. Torrey, Mex. Bound. 70.

C. terebinthinus. Gray, Ives' Rep. 15.

C. glaucus. Nutt. in Journ. Acad. Philad. 7. 28. Torr. & Gray, Fl. 1. 624. Eat. & Wr. 215. Walp. Rep. 2. 418. Watson, King's Rep. 5. 124.

C. globosus. Watson, Proc. Am. Acad. 11. 141. Brew. & Wats. l. c.

C. montanus. Torr. & Gray, Pac. R. Rep. 2. 120. Watson, King's Rep. 5. 123, in part.

C. montanus, var. *globosus.* Watson, l. c. 124, excl. fruit.

C. glomeratus. Raf. Journ. Phys. 1819, 100; Seringe, Bull. Bot. Gen. 1830, 214 (Litt.-Ber. zu Linnæa, 1833, 81). DC. Prodr. 4. 204. Don, Mill. 3. 350. Torr. & Gray, Fl. 1. 623. Eat. & Wr. 216. Nees, Pl. Neuwied, 10. Walp. l. c. Hook. in Lond. Journ. Bot. 6. 234. Engelm. Pl. Upp. Miss. 193. Gray, Pac. R. Rep. 12. 43; Proc. Acad. Philad. 1863, 62. Porter, Fl. Col. 60. Rothr. Pl. Wheeler, 40.

Selinum acaule. Pursh, 732. Bradbury, Cat. 336.

Thapsia glomerata. Nutt. Genera, 1. 184. Dietr. 2. 975.

Ferula (?) *Palmella.* Hook. Fl. Bor.-Am. 1. 268. Don, Mill. 3. 328. Eat. & Wr. 244.

C. longipes. Watson, King's Rep. 5. 124. Coulter, Hayd. Rep. 1872, 768.

C. montanus. Torr. & Gray, Fl. 1. 624; Pac. R. Rep. 2. 165. Walp. Rep. 2. 418. Hook. in Lond. Journ. Bot. 6. 234. Gray, Pl. Fendl. 56; Pl. Wright. 1. 79; Pl. Thurb. 299; Ives' Rep. 15; Am. Journ. Sci. 2. 33. 408; Proc. Acad. Philad. 1863, 62. Engelm. Pl. Upp. Miss. 193. Torrey, Pac. R. Rep. 4. 92; Mex. Bound. 70. Watson, King's Rep. 5. 123, in part & excl. var. Porter, Fl. Col. 60. Brew. & Wats. Bot. Calif. 1. 266.

C. macrorhizus. Buck. Proc. Acad. Philad. 1861, 455; fide Gray, same, 1862, 163.

Var. **purpurascens.** Gray, Ives' Rep 15. Brew. & Wats. l. c. 267.

C. montanus, var. *globosus.* Watson, King's Rep. 5. 124, in part.

C. Nevadensis. Gray, Proc. Am. Acad. 6. 536. Brew. & Wats. l. c.

C. nivalis. Watson, King's Rep. 5. 123.

C. purpureus. Watson, Am. Naturalist, 7. 300. Parry, same, 9. 271.

C. terebinthinus. Torr. & Gray, Fl. 1. 624. Eat. & Wr. 216. Walp. Rep. 2. 418. Newberry, Pac. R. Rep. 6. 75. Torrey, Bot. Wilkes, 322. Parry, Am. Naturalist, 9. 271. Brew. & Wats. Bot. Calif. 1. 266.

Selinum terebinthinum. Hook. Fl. Bor.-Am. 1. 266, **t. 95.** Don, Mill. 3. 322.

C. albiflorus & *thapsoides.* Torr. & Gray, Fl. 1. 625. Walp. Rep. 2. 418.

C. fœniculaceus. Torr. & Gray, Fl. 1. 624. Walp. l. c. Gray, Proc. Am. Acad. 6. 536. Watson, King's Rep. 5. 124. Porter, Hayd. Rep. 1871, 484. Coulter, same, 1872, 768.

CYNOSCIADIUM digitatum. DC. Mem. Umbel. 44, **t. 11, f. A,** & Prodr. 4. 141. Don, Mill. 3. 305, **f. 63.** Torr. & Gray, Fl. 1. 617. Dietr. 2. 954. Eat. & Wr. 216. Darby, Bot. 334. Gray, Hall's Pl. Texas, 11.

C. pinnatum. DC. l. c. **t. 11, f. B**; Prodr. 4. 141. Don, Mill. 3. 305. Torr. & Gray, Fl. 1. 617. Dietr. 2. 954. Gray, l. c. 11.

Ethusa pinnata. Nutt.; Eat. & Wr. 116.

Var. **pumilum.** Engelm. & Gray, Pl. Lindh. 10. Gray, Hall's Pl. Texas, 11.

DAUCUS Carota, Linn. Walter, 113. Pursh, 191. Elliott, 1. 348. Barton, Comp. Fl. Phil. 1. 138. Torrey, Fl. U. S. 308; Fl. N. Y. 1. 280. Bigel. Fl. Bost. 2 ed. 109. Beck, Bot. 149. Darling. Fl. Cestr. 197. Torr. & Gray, Fl. 1. 635. Eat. & Wr. 221. Gray, Manual, 191. Porter, Fl. Col. 53.

Tricta daucoides. Raf. New Flora, 4. 23.

D. scadiophyllus, &c. Raf. l. c. 4. 24.

D. pusillus. Michx. Fl. 1. 164. Poir. Suppl. 2. 118. Pursh, 192. Elliott, 1. 349. DC. Prodr. 4. 213. Hook. Comp. Bot. Mag. 1. 47. Don, Mill. 3. 358. New Flora, 4. 26. Torr. & Gray, Fl. 1. 636; Pac. R. Rep. 2. 165. Dietr. 2. 987. Eat. & Wr. 221. Walp. Rep. 2. 419. Benth. Pl. Hartw. 313. Torrey, Pac. R. Rep. 4. 93. Cooper, same, 12. 63. Chapman, 161. Wood, Cl.-Book, 381; Bot. & Fl. 139. Benth. Fl. Austral. 3. 376. Boland. Cat. 14. Watson, Proc. Am. Acad. 11. 115. Brew. & Wats. Bot. Calif. 1. 272. — Referred to *D. australis,* Poepp., by Hook. f. in Fl. N. Zeal. 1. 91 & Fl. Tasm. 1. 161.

D. Carota, var. Spreng. in Roem. & Schult. Syst. 6. 474.

Babiron pusillum. Raf. New Flora, 23.

D. brevifolius. Raf. l. c. 26.

Var. **microphyllus.** Torr. & Gray, Fl. 1. 636. Torrey, Bot. Wilkes, 321.

D. microphyllus. Presl; DC. Prodr. 4. 213. Hook. Fl. Bor.-Am. 1. 271. Don, Mill. 3. 358. Dietr. 2. 978. Eat. & Wr. 221.

Var. **scaber.** Torr. & Gray, l. c. Gray, Pl. Wright. 2. 65. Torrey, Mex. Bound. 71.

DEWEYA arguta. Torr. & Gray, Fl. 1. 641. Walp. Rep. 5. 922. Torrey, Pac. R. Rep. 4. 94; Mex. Bound. 70, **t. 26.** Gray, Proc. Am. Acad. 7. 342. Boland. Cat. 13. Brew. & Wats. Bot. Calif. 1. 257.

Arracacia arguta. Benth. & Hook. Gen. Pl. 1. 885.

D. Hartwegi. Gray, l. c. Boland. Cat. 13. Brew. & Wats. Bot. Calif. 1. 257.

D. ——, n. sp. Benth. Pl. Hartw. 312. Walp. Ann. 2. 723.

D. arguta, var. β. Torrey in Durand, Pl. Pratten. 89; Pac. R. Rep. 4. 94.

D. Kelloggii. Gray, l. c. 343. Boland. Cat. 13. Brew. & Wats. l. c.

DISCOPLEURA capillacea. DC. Mem. Umbel. 38, **t. 8, f. A**; Prodr. 4. 106. Don, Mill. 3. 283. Beck, Bot. 144. Hook. Comp. Bot. Mag. 1. 47. Torr. & Gray, Fl. 1. 607. Dietr. 2. 944. Eat. & Wr. 227. Torrey, Fl. N. Y. 1. 266. Chapman, 162. Reichenb. f. Icon. Fl. Germ. 21. 8, **t. 1850, f. 9–15** (fruit). Gray, Manual, 195; Hall's Pl. Texas, 11.

Ammi majus. Walter, 113.

Ammi capillaceum. Michx. Fl. 1. 164. Persoon, 1. 308. Poir. Suppl. 1. 310. Pursh, 192. Nutt. Genera, 1. 179. Barton, Comp. Fl. Phil. 1. 138. Elliott, 1. 349.

Ammi rubricaule. Hornem. Hort. Hafn. 272. DC. Prodr. 4. 114. Don, Mill. 3. 287. Dietr. 2. 944.

Sison capillaceus. Spreng. Spec. Umbel. 112, in part; Roem. & Schult. Syst. 6. 411; Syst. 1. 887. Torrey, Fl. U. S. 306.

Sison rubricaule. Eat. & Wr. 429.

Ptilimnium capillaceum. Raf.; Seringe, Bull. Bot. Soc. Genev. 1830, 214 (Litt.-Ber. zu Linnæa, 1833, 82).

Var. (?) **costata.** DC. l. c., **t. 8, f. B**; Prodr. 4. 107. Torr. & Gray, Fl. 1. 607. Gray, Manual, 195.

Ammi costatum. Elliott, 1. 350 (Spreng. Neue Entdeck. 2. 194).

Ptilimnium costatum. Raf. l. c.

D. costata. Chapman, 162. Wood, Cl.-Book, 387; Bot. & Fl. 141.

D. laciniata. Benth. & Hook. Gen. Pl. 1. 907.

Daucosma laciniatum. Engelm. & Gray, Pl. Lindh. 210. Gray, Pl. Wright. 1. 79 & 2. 65. Walp. Ann. 2. 701. Torrey, Mex. Bound. 70.

D. Nuttallii. DC. l. c. **t. 9**; Prodr. 4. 107. Don, Mill. 3. 283. Torr. & Gray, Fl. 1. 608. Dietr. 2. 946. Eat. & Wr. 227. Torrey, Sitgr. Rep. 175. Chapman, 162. Gray, Manual, 195; Hall's Pl. Texas, 11.

? *Peucedanum verticillatum.* Raf. Fl. Lud. 81. Spreng. in Roem. & Schult. Syst. 6. 571. DC. Prodr. 4. 182. Don, Mill. 3. 335. Dietr. 2. 968. Eat. & Wr. 349.

? *Ptilimnium junceum.* Raf.; Seringe, ll. cc.

ERIGENIA bulbosa. Nutt. Genera, 1. 188. DC. Prodr. 4. 71. Don, Mill. 3. 256. Beck, Bot. 141. Hook. Comp. Bot. Mag. 1. 47. Torr. & Gray, Fl. 1. 645. Torrey, Fl. N. Y. 1. 283, **t. 39.** Gray, Manual, 198.

Hydrocotyle bipinnata. Muhl. Suppl. Ind. Fl. Lanc. 236; Cat. 2 ed. 29. Barton, Prod. Fl. Phil. 36.

Sison bulbosum. Michx. Fl. 1. 169.

Ligusticum (?) *bulbosum.* Persoon, 1. 315. Spreng. in Roem. & Schult. 6. 555.

Sium bulbosum. Poir. Suppl. 1. 622.

Hydrocotyle composita. Pursh, 190. Poir. Suppl. 5. 702. Spreng. Spec. Umbel. 6, **t. 5, f. 9**; Roem. & Schult. Syst. 6. 355; Syst. 1. 878. Torrey, Fl. U. S. 304.

Hydrocotyle ambigua. Pursh, 732 (Rich. Monogr. Hydroc. 82). Poir. Suppl. 5. 702. Bradbury, Cat. 335. Spreng. in Roem. & Schult. Syst. 6. 356; Syst. 1. 876.

Hydrocotyle bulbosa. Eat. & Wr. 277.

ERYNGIUM aromaticum. Baldwin; Elliott, 1. 344 (Spreng. Neue Entdeck. 2. 194). Spreng. Syst. 1. 872. DC. Prodr. 4. 94. Don, Mill. 3. 272. Torr. & Gray, Fl. 1. 604. Dietr. 2. 938. Eat. & Wr. 138. Chapman, 160. Wood, Cl.-Book, 379; Bot. & Fl. 136.

E. Baldwinii. Spreng. Syst. 1. 870. DC. Prodr. 4. 92. Don, Mill. 3. 270. Hook. Comp. Bot. Mag. 1. 47. Torr. & Gray, Fl. 1. 605 excl. var. Dietr. 2. 937. Eat. & Wr. 238. Gray, Pl. Wright. 1. 78. Chapman, 160. Wood, ll. cc.

E. gracile. Baldwin; Elliott, 1. 345 (Spreng. Neue Entdeck. 2. 194); not Delaroche. Nutt. Genera, 1. 175. Eat. & Wr. 238.

E. Cervantesii. Chapman, 160; not Delaroche.

E. prostratum. Wood, ll. cc., excl. var.

? *Streblanthus auriculatus.* Raf.; Seringe, Bull. Bot. Soc. Genev. 1830, 214 (Litt.-Ber. zu Linnæa, 1833, 82). Raf. New Flora, 4. 35.

Streblanthus gracilis, humilis & tenuifolius. Raf. l. c. 35 & 36.

E. diffusum. Torrey, Ann. Lyc. N. Y. 2. 207; Marcy's Rep. 286, **t. 6**; Sitgr. Rep. 175; Pac. R. Rep. 4. 91; Mex. Bound. 70. DC. Prodr. 4. 91. Don, Mill. 3. 269. Torr. & Gray, Fl. 1. 603. Dietr. 2. 937. Eat. & Wr. 238. Young, Fl. Texas, 296.

E. prostratum. James in Long's Exped. 2. 325.

E. fœtidum. Linn. Spec. 232, in part. Michx. Fl. 1. 163. Pursh, 189. Elliott, 1. 344. Eat. & Wr. 238. Excluded by Torr. & Gray, Fl. 1. 606; a West Indian species, found in Florida only by Michaux.

E. heterophyllum. Engelm. in Wisliz. Rep. 22. Walp. Ann. 2. 696. (Chihuahua.)

E. Hookeri. Walp. Rep. 2. 389. Gray, Pl. Wright. 1. 78.

E. coronatum. Torr. & Gray, Fl. 1. 604; not Hook. & Arn. Engelm. & Gray, Pl. Lindh. 10. Young, Fl. Texas, 286.

E. Leavenworthii. Torr. & Gray, Fl. 1. 604. Walp. Rep. 2. 389. Gray, Pl. Lindh. 209; Pl. Wright. 1. 79 & 2. 65. Torrey, Sitgr. Rep. 175; Mex. Bound. 70. Young, Fl. Texas, 286.

E. longifolium. Cav. Ann. 2. 133; Icon. 6, **t. 555**. Delaroche, Eryng. 58. Tratt. Arch. **t. 766**. DC. Prodr. 4. 95. Gray, Pl. Wright. 2. 65.

E. Mettaueri. Wood, Cl.-Book, 379; Bot. & Fl. 136.

E. nasturtiifolium. Juss.; Delaroche, Eryng. 46, **t. 17**. Tratt. Arch. **t. 768**. Spreng. in Roem. & Schult. Syst. 6. 328; Syst. 1. 872. DC. Prodr. 4. 92. J. Gay, Eryng. in Ann. Sci. Nat. 3. 9. 162.

E. petiolatum. Hook. Fl. Bor.-Am. 1. 259. Don, Mill. 3. 273. Torr. & Gray, Fl. 1. 604. Eat. & Wr. 238. Walp. Rep. 2. 389. Benth. Bot. Sulph. 18. Torrey, Pac. R. Rep. 7. 12; Bot. Wilkes, 315. Boland. Cat. 13. Brew. & Wats. Bot. Calif. 1. 255.

E. aquaticum. Hook. & Arn. Bot. Beechey, 142.

Var. **juncifolium.** Gray, Proc. Am. Acad. 8. 385.

E. articulatum. Hook. Lond. Journ. Bot. 6. 232. Newberry, Pac. R. Rep. 6. 75.

Var. **armatum.** Watson, Bot. Calif. 1. 255.

E. præaltum. Gray, Pl. Lindh. 210. Walp. Ann. 2. 696. Chapman, 160.

E. aquaticum. Michx. Fl. 1. 163.

E. Virginianum. Elliott, 1. 343. Torr. & Gray, Fl. 1. 605, in part.

E. prostratum. Nutt.; DC. Prodr. 4. 92. Don, Mill. 3. 270. Eat. & Wr. 238. Dietr. 2. 937. Gray, Pl. Wright. 1. 78.

? *E. Americanum.* Walter, 112. Spreng. in Roem. & Schult. Syst. 6. 337. DC. Prodr. 4. 97. Don, Mill. 3. 274. Dietr. 2. 939. Eat. & Wr. 238. Gray, Hall's Pl. Texas, 11.

? *E. integrifolium.* Walter, 112. Lam. Dict. 4. 700.

? *E.* ——? Elliott, 1. 345, under *E. gracile.*

E. Baldwinii, var. β. Torr. & Gray, Fl. 1. 605.

Streblanthus heterophyllus. Raf. New Flora, 4. 35.

E. prostratum, var. *foliosum.* Wood, Cl.-Book, 378; Bot. & Fl. 136.

E. Ravenelii. Gray, Pl. Lindh. 209. Walp. Ann. 2. 696. Chapman, 160.

E. virgatum. Lam. Dict. 4. 757. Persoon, 1. 300. Delaroche, Eryng. 49, t. 20. Tratt. Arch. t. **781.** Pursh, 189. Spreng. in Roem. & Schult. Syst. 6. 327; Syst. 1. 870. Torrey, Fl. U. S. 301. DC. Prodr. 4. 94. Lodd. Bot. Cab. t. **1636.** Don, Mill. 3. 272. Beck, Bot. 142. Hook. Comp. Bot. Mag. 1. 47. Torr. & Gray, Fl. 1. 605. Dietr. 2. 938. Chapman, 160. Wood, Cl.-Book, 379; Bot. & Fl. 136.

E. ovalifolium. Michx. Fl. 1. 163. Persoon, l. c. Elliott, 1. 343. Eat. & Wr. 238.

E. Virginianum. Lam. Dict. 4. 759. Persoon, 1. 300. Delaroche, Eryng. 48, t. **19.** Tratt. Arch. t. **782.** Pursh, 189. Barton, Comp. Fl. Phil. 1. 136. Spreng. in Roem. & Schult. Syst. 6. 327; Syst. 1. 871. Torrey, Fl. U. S. 301. DC. Prodr. 4. 94. Don, Mill. 3. 272. Beck, Bot. 142. Torr. & Gray, Fl. 1. 605, in part. Dietr. 2. 938. Eat. & Wr. 238. Gray, Pl. Lindh. 209 & 210; Manual, 191. Walp. Ann. 2. 696. Chapman, 160. Lesqx. Fl. Ark. 362.

E. aquaticum, var. *β.* Linn. Spec. 232. Crantz, Umbel. 117. Willd. Spec. 1. 1357.

? *E. fœtidum.* Walter, 112.

E. Plukenetii. Elliott, 1. 582. Eat. & Wr. 238.

E. Wrightii. Gray, Pl. Wright. 1. 78 & 2. 65; Hall's Pl. Texas, 11. Seem. Bot. Herald, 294. Walp. Ann. 5. 64. Torrey, Mex. Bound. 70.

E. tenue. Hook. & Arn. Bot. Beechey, 293; not Lam. Walp. Rep. 2. 389.

E. yuccæfolium. Michx. Fl. 1. 164. Chapman, 160. Lesqx. Fl. Ark. 362. Gray, Manual, 191.

E. fœtidum. Linn. Spec. 232, in part.

E. aquaticum. Linn. Spec. 232, in part, excl. var. Hill, Veg. Syst. 5. 65, t. **50. f. 2.** Crantz, Umbel. 117. Jacquin, Icon. Rar. 2. 13, t. **347**; Obs. Bot. 1. 151. Walter, 112. Ait. Hort. Kew. 1. 325. Lam. Dict. 4. 758, in part. Willd. Spec. 1. 1357, excl. var.; Enum. 298. Persoon, 1. 300. Delaroche, Eryng. 57. Pursh, 189, in part. Nutt. Genera, 1. 175. Elliott, 1. 342. Ker, Bot. Reg. 5, t. **372.** Spreng. in Roem. & Schult. Syst. 6. 316; Syst. 1. 868. Torrey, Fl. U. S. 301; Emory's Rep. 409. DC. Prodr. 4. 95. Don, Mill. 3. 272. Beck, Bot. 142. Hook. Comp. Bot. Mag. 1. 47. Torr. & Gray, Fl. 1. 604, in part. Dietr. 2. 938. Eat. & Wr. 238. Gray, Pl. Lindh. 209; Manual, 1 ed. 157. Parry, Pl. Minn. 612.

E. Americanum; prostratum.
aquaticum; petiolatum, præaltum, Virginianum, yuccæfolium.
articulatum; petiolatum.
Baldwinii; prostratum.
Cervantesii; Baldwinii.
coronatum; Hookeri.
fœtidum; Virginianum, yuccæfolium.
E. gracile; Baldwinii.
integrifolium; prostratum.
ovalifolium; virgatum.
Plukenetii; Virginianum.
prostratum; Baldwinii, diffusum.
tenue; Wrightii.
Virginianum; præaltum.
——?; prostratum.

EULOPHUS Americanus. Nutt.; DC. Mem. Umbel. 69, t. **2, f. M**; Prodr. 4. 248. Don, Mill. 3. 381. Torr. & Gray, Fl. 1. 640. Eat. & Wr. 240. Gray, Manual, 198.

? *Entasikon* (?) *tuberosum.* Raf. New Flora, 4. 29.

Smyrnium Americanum. Dietr. 2. 989.

E. Texanus. Benth. & Hook. Gen. Pl. 1. 882 & 885.

Tauschia Texana. Gray, Pl. Lindh. 211; Pl. Wright. 1. 79. Walp. Ann. 2. 719.

EURYTÆNIA Texana. Torr. & Gray, Fl. 1. 633. Torrey, Marcy's Rep. 287, t. **7.** Gray, Hall's Pl. Texas, 11.

E. macrophylla. Buckl. Proc. Acad. Philad. 1861, 455; fide Gray, same, 1862, 163.

FERULA Californica. Gray, Proc. Am. Acad. 7. 348. Brew. & Wats. Bot. Calif. 1. 272.

Leptotænia Californica. Nutt.; Torr. & Gray, Fl. 1. 630. Walp. Rep. 2. 412. Torrey, Pac. R. Rep. 4. 92.

F. dissoluta. Watson, Bot. Calif. 1. 271.

Leptotænia dissecta. Nutt. l. c. Walp. l. c. Hook. Lond. Journ. Bot. 6. 236. Gray, Ives' Rep. 15. Torrey, Bot. Wilkes, 319.

Cynapium (?) Bigelovii. Torrey, Pac. R. Rep. 4. 94.

F. dissecta. Gray, Proc. Am. Acad. 7. 348 & 8. 385; not Ledeb.

F. multifida. Gray, Proc. Am. Acad. 7. 348. Watson, King's Rep. 5. 127; Pl. Wheeler, 9. Porter, Hayd. Rep. 1871, 484. Coulter, same, 1872, 768. Brew. & Wats. Bot. Calif. 1. 271.

Leptotænia multifida. Nutt.; Torr. & Gray, Fl. 1. 630. Walp. Rep. 2. 412. Hook. Lond. Journ. Bot. 6. 236. Durand, Fl. Utah, 165.

F. Newberryi. Watson, Proc. Am. Acad. 11. 145. Brew. & Wats. l. c.

Peucedanum Newberryi. Watson, Am. Naturalist, 7. 301. Parry, same, 9. 271.

F. Canadensis; Ligusticum acteæfolium.

caruifolia; Peucedanum caruifolium.

dissecta; dissoluta.

Drummondii; Polytænia Nuttallii.

fœniculacea; Peucedanum fœniculaceum, macrocarpum, millefolium.

F. macrocarpa; Peucedanum macrocarpum.

nudicaulis & *Nuttallii;* Peucedanum nudicaule.

Palmella; Cymopterus glomeratus.

parvifolia; Peucedanum parvifolium.

villosa; Archangelica hirsuta.

GLYCOSMA ambiguum. Gray, Proc. Am. Acad. 8. 386. Brew. & Wats. Bot. Calif. 1. 262.

G. Bolanderi. Gray, l. c. Brew. & Wats. l. c.

Myrrhis Bolanderi. Gray, Proc. Am. Acad. 7. 346. Boland. Cat. 13.

G. occidentale. Nutt.; Torr. & Gray, Fl. 1. 639. Walp. Rep. 2. 423 & 5. 908. Hook. Lond. Journ. Bot. 6. 237. Cooper, Pac. R. Rep. 12. 63. Brew. & Wats. Bot. Calif. 1. 262.

Osmorhiza occidentalis. Torrey, Mex. Bound. 71; Bot. Wilkes, 324. Boland. Cat. 13.

Myrrhis occidentalis. Benth. & Hook. Gen. Pl. 1. 897. Gray, Proc. Am. Acad. 7. 346. Watson, King's Rep. 5. 122. Porter, Hayd. Rep. 1871, 484. Coulter, same, 1872, 768. Parry, Am. Naturalist, 9. 271.

HERACLEUM lanatum. Michx. Fl. 1. 166. Persoon, 1. 314. Poir, Suppl. 1. 619. Pursh, 192. Bigel. Fl. Bost. 67. Barton, Fl. Philad. 37; Comp. 1. 139. Nutt. Genera, 1. 181. Spreng. Umbel. 46; Roem. & Schult. Syst. 6. 580. Torrey, Fl. U. S. 313; Fl. N. Y. 1. 279; Frem. Rep. 90; Pac. R. Rep. 4. 92; Mex. Bound. 71. DC. Prodr. 4. 192. Bong. Veg. Sitch. 142. Hook. Fl. Bor.-Am. 1. 269; Lond. Journ. Bot. 6. 237. Don, Mill. 3. 342. Beck, Bot. 148. Darling. Fl. Cestr. 196. Torr. & Gray, Fl. 1. 632. Dietr. 2. 972. Eat. & Wr. 267. Ledeb. Fl. Ross. 2. 323. Gray, Pl. Fendl. 56; Manual, 191. Parry, Pl. Minn. 613. Cooper, Pac. R. Rep. 12. 63. Chapman, 165. Pl. Bourgeau, 257. Rothr. Fl. Alask. 447; Pl. Wheeler, 40. Watson, King's Rep. 5. 131. Porter, Hayd. Rep. 1871, 484; Fl. Col. 53. Coulter, Hayd. Rep. 1872, 768. Boland. Cat. 14. Brew. & Wats. Bot. Calif. 1. 271.

H. Spondylium. Nutt. Genera, 1. 181. James, Cat. 178. Torr. Ann. Lyc. N. Y. 2. 207. Cham. & Schlecht. in Linnæa, 1. 394. Hook. & Arn. Bot. Beechey, 142. Eat. & Wr. 267. Ledeb. Fl. Ross. 2. 322, in part.

H. Panaces. Spreng. Syst. 1. 912, in part.

H. auritum. Bischoff, Del. Sem. Hort. Heidelb. 1839 (Litt.-Ber. zu Linnæa, 14. 131). Walp. Rep. 2. 416.

H. dulce. Fisch. in Ind. Sem. Petrop. 9, Suppl. 23 (Linnæa, 18. 221). Ruprecht, Beitr. Fl. Russ. 2. 37. Walp. Rep. 5. 890.

Var. **vestitum.** Torr. & Gray, Fl. 1. 632. Torrey, Bot. Wilkes, 323.

H. Douglasii. DC. Prodr. 4. 193. Hook. Fl. Bor.-Am. 1. 270. Don, Mill. 3. 343. Dietr. 2. 972. Eat. & Wr. 267.

HYDROCOTYLE Americana. Linn. Spec. 234. Hill, Veg. Syst. 5. 23, **t. 10, f. 1.** Crantz, Umbel. 120. Lam. Dict. 3. 152. Willd. Spec. 1. 1361. Thunb. Diss. Bot. 2. 414. Michx. Fl. 1. 162. Persoon, 1. 301. Pursh, 190. Bigel. Fl. Bost. 67. Barton, Fl. Phil. 36. Spreng. Spec. Umbel. 3, **t. 2, f. 3**; Roem. & Schult. Syst. 6. 346; Syst. 1. 876. Elliott, 1. 346. Torrey, Fl. U. S. 303; Fl. N. Y. 1. 262. Richard, Hydrocot. in Ann. Sci. Phys. 4. 45, **t. 55, f. 10.** DC. Prodr. 4. 64. Hook. Fl. Bor.-Am. 1. 257. Don, Mill. 3. 251. Beck, Bot. 140. Darling. Fl. Cestr. 183. Torr. & Gray, Fl. 1. 599. Dietr. 2. 928. Eat. & Wr. 277. Chapman, 158. Gray, Manual, 189.

H. interrupta. Muhl. Cat. 10. Elliott, 1. 345. Spreng. Syst. 1. 875. DC. Prodr. 4. 59, in part. Don, Mill. 3. 248. Beck, Bot. 140. Torr. & Gray, Fl. 1. 599, in part. Dietr. 2. 926. Gray, Pl. Lindh. 209; Pl. Wright, 2. 64; Manual, 190; Hall's Pl. Texas, 11. Chapman, 159.

H. vulgaris. Michx. Fl. 1. 161. Pursh, 190. Spreng. in Roem. & Schult. Syst. 6. 344, in part. Torrey, Fl. U. S. 303. Hook. Fl. Bor.-Am. 1. 257. Eat. & Wr. 277.

H. vulgaris, var. *verticillata.* Richard, Hydrocot. 27, in part.

H. prolifera. Kellogg, Proc. Calif. Acad. 1. 15. Brew. & Wats. Bot. Calif. 1. 254.

H. vulgaris. Cham. & Schlecht. in Linnæa, 1. 356, in part.

H. interrupta. Torr. & Gray, Fl. 1. 599, in part. Boland. Cat. 13.

H. natans. Torrey, Mex. Bound. 69.

H. ranunculoides. Linn. f. Suppl. 177. Lam. Dict. 3. 154. Willd. Spec. 1. 1363. Thunb. Diss. Bot. 2. 415. Persoon, 1. 302. Spreng. Spec. Umbel. 2, **t. 1, f. 2**; Roem. & Schult. Syst. 6. 349, excl. var.; Syst. 1. 877. Richard, Hydrocot. 55, **t. 58, f. 18.** Torrey, Fl. U. S. 304; Mex. Bound. 69; Bot. Wilkes, 313. Cham. & Schlecht. in Linnæa, 1. 373. DC. Prodr. 4. 65. Don, Mill. 3. 252. Darling. Fl. Cestr. 597. Torr. & Gray, Fl. 1. 600. Dietr. 2. 928. Eat. & Wr. 277. Clos in Gay, Fl. Chil. 3. 65. Gray, Pl. Wright. 2. 64; Manual, 189. Chapman, 159. Kellogg, Proc. Calif. Acad. 1. 14. Brew. & Wats. Bot. Calif. 1. 254.

H. Americana. Walter, 113? Newberry, Pac. R. Rep. 6. 75. Boland. Cat. 13.

H. cymbalarifolia. Muhl. Cat. 29. Elliott, 1. 346. Beck, Bot. 140.

H. natans. Cham. & Schlecht. in Linnæa, 1. 373; not Cyr. DC. Prodr. 4. 62, in part. Hook. & Arn. Bot. Beechey, 347. Torr. & Gray, Fl. 599. Boland. Cat. 13.

H. repanda. Persoon, 1. 302. Pursh, 190. Poir. Suppl. 5. 702. Spreng. Spec. Umbel. 4, **t. 2, f. 4**; Roem. & Schult. Syst. 6. 349, excl. var.; Syst. 1. 876. Richard, Hydrocot. 39, **t. 57, f. 14.** Elliott, 1. 347. Cham. & Schlecht. in Linnæa, 1. 369. DC. Prodr. 4. 62. Don, Mill. 3. 250. Hook. Comp. Bot. Mag. 1. 47. Torr. & Gray, Fl. 1. 600. Dietr. 2. 927. Eat. & Wr. 277. Gray, Pl. Lindh. 209; Manual, 189; Hall's Pl. Texas, 11. Chapman, 159. Referred to *H. Asiatica*, Linn., by Benth. Fl. Austral. 3. 347, and by Griseb. Fl. Brit. W. Ind. 307, as var. *repanda.*

H. reniformis. Walter, 113. Poir. Suppl. 3. 72.

? *H. erecta.* Linn. f. Suppl. 177. Lam. Dict. 3. 154. Willd. Spec. 1. 1362. Thunb. Diss. Bot. 2. 414. Persoon, 1. 302.

H. ficarioides. Michx. Fl. 1. 161.

Glyceria repanda. Nutt. Genera, 1. 177.

Chondrocarpus erectus. Nutt. Genera, Errata.

H. umbellata. Linn. Spec. 234. Hill, Veg. Syst. 5. 22, **t. 9, f. 2.** Crantz, Umbel. 120. Walter, 112. Lam. Dict. 3. 152. Swartz, Obs. Bot. 111. Willd. Spec. 1. 1361. Thunb. Diss. Bot. 2. 414. Persoon, 1. 301. Ait. f. Hort. Kew. 2. 118. Pursh, 190. Spreng. Spec. Umbel. 1, **t. 1**; Roem. & Schult. Syst. 6. 345, excl. var.; Syst. 1. 875. Richard, Hydrocot. 28, **t. 52, f. 3.** Elliott, 1. 346. Bigel. Fl. Bost. 2 ed. 109. Torrey, Fl. U. S. 303; Fl. N. Y. 1. 262; Mex. Bound. 69. DC. Prodr. 4. 60. Don, Mill. 3. 249. Beck, Bot. 140. Hook. Comp. Bot. Mag. 1. 46. Torr. & Gray, Fl. 1. 599. Eat. & Wr. 277. Gray, Pl. Lindh. 209; Manual, 189; Hall's Pl. Texas, 11. Chapman, 159. Lesqx. Fl. Ark. 362. Griseb. Fl. Brit. W. Ind. 307.

H. umbellulata. Michx. Fl. 1. 161. Richard, l. c. 29, **t. 53, f. 4.**

H. incrassatum. Raf. Fl. Lud. 81.

H. fluitans. DC. Prodr. 4. 69. Don, Mill. 3. 255. Dietr. 2. 931.

Var. (?) **ambigua.** Gray, Manual, 190.

H. ambigua; Erigenia bulbosa.
Americana; ranunculoides.
Asiatica; repanda.
bipinnata & *bulbosa;* Erigenia bulbosa.
Chinensis; Crantzia lineata.
composita; Erigenia bulbosa.
cordata; Limnanthemum trachyspermum.
cymbalarifolia; ranunculoides.

H. erecta & *ficarioides;* repanda.
fluitans & *incrassatum;* umbellata.
interrupta; prolifera.
lineata; Crantzia lineata.
natans; prolifera, ranunculoides.
reniformis; repanda.
umbellulata; umbellata.
vulgaris; interrupta, prolifera.

LIGUSTICUM actæifolium. Michx. Fl. 1. 166. Persoon, 1. 315. Poir. Suppl. 3. 482. Pursh, 193. Spreng. in Roem. & Schult. Syst. 6. 555; Syst. 1. 908. Torrey, Fl. U. S. 313. Torr. & Gray, Fl. 1. 618. Chapman, 163. Gray, Manual, 194.

Ferula Canadensis. Linn. Spec. 247, not Hort. Ups. Hill, Veg. Syst. 6. 37, **t. 35, f. 2.** Crantz, Umbel. 72. Willd. Spec. 1. 1413. DC. Prodr. 4. 174. Hook. Fl. Bor.-Am. 1. 268. Don, Mill. 3. 327. Dietr. 2. 965.

? *Angelica lobata.* Walter, 115. Gmelin, Syst. 1. 482. Spreng. in Roem. & Schult. Syst. 6. 608.

Angelica lucida. Bartram, Trav. 327. Pursh, 193. Elliott, 1. 353.

Thaspium actæifolium. Nutt. Genera, 1. 197. DC. Prodr. 4. 154. Hook. Fl. Bor.-Am. 1. 265. Don, Mill. 3. 315. Beck, Bot. 146. Dietr. 2. 958.

L. apiifolium. Benth. & Hook. Gen. Pl. 1. 912. Gray, Proc. Am. Acad. 7. 347 & 8. 385. Boland. Cat. 13. Porter, Fl. Col. 51. Watson, Proc. Am. Acad. 11. 140. Brew. & Wats. Bot. Calif. 1. 264.

Cynapium apiifolium. Nutt.; Torr. & Gray, Fl. 1. 641. Walp. Rep. 2. 426 & 5. 922. Torrey, Pac. R. Rep. 4. 93.

Conioselinum Canadense. Newberry, Pac. R. Rep. 6. 75? Gray, Proc. Acad. Philad. 1863, 63. Coulter, Hayd. Rep. 1872, 768?

Var. **minus.** Gray; Brew. & Wats. Bot. Calif. 1. 264.

L. filicinum. Watson, Proc. Am. Acad. 11. 140.

L. apiifolium. Watson, King's Rep. 5. 125.

L. scopulorum. Parry, Am. Naturalist, 9. 271.

L. montanum. Benth. & Hook. Gen. Pl. 1. 912 & 914. Gray, Proc. Am. Acad. 7. 347. Porter, Fl. Col. 51. Rothr. Pl. Wheeler, 40.

Thaspium (?) montanum. Gray, Pl. Fendl. 57; Ives' Rep. 15; Am. Journ. Sci. 2. 33. 408; Proc. Acad. Philad. 1863, 63. Walp. Ann. 2. 702. Torrey, Stansb. Rep. 389; Pac. R. Rep. 4. 94. Durand, Fl. Utah, 165.

Var. **tenuifolium.**

Thaspium montanum, var. *tenuifolium.* Gray, Pl. Wright. 2. 65. Torrey, Mex. Bound. 70.

L. scopulorum. Gray, Proc. Am. Acad. 7. 347. Porter, Fl. Col. 51. Watson, Proc. Am. Acad. 11. 140. Brew. & Wats. Bot. Calif. 1. 264.

Conioselinum Canadense. Torrey, Pac. R. Rep. 4. 94.

Conioselinum Fischeri. Cooper, Pac. R. Rep. 12. 62? Gray, Am. Journ. Sci. 2. 33. 408; Proc. Acad. Philad. 1863, 63, in part. Torrey, Bot. Wilkes, 321?

L. apiifolium. Rothr. Pl. Wheeler, 40.

L. Scoticum. Linn. Spec. 250. See syn. in Willd. Spec. 1. 1424; Spreng. in Roem. & Schult. Syst. 6. 547; DC. Prodr. 4. 157; Ledeb. Fl. Ross. 2. 286. — Michx. Fl. 1. 106. Persoon, 1. 314. Pursh, 193. Nutt. Genera, 1. 185. Koch, Umbel. 104, **f. 44–47.** Bigel. Fl. Bost. 2 ed. 111. Torrey, Fl. U. S. 312. Cham. & Schlecht. in Linnæa, 1. 390. Hook. Fl. Bor.-Am. 1. 265. Bongard, Veg. Sitch. 141. Don, Mill. 3. 317. Beck, Bot. 146. Hook. & Arn. Bot. Beechey, 125. Torr. & Gray, Fl. 1. 618. Eat. & Wr. 300. Seem. Bot. Herald, 32. Cooper, Pac. R. Rep. 12. 38 & 62. Hook. f. Arct. Pl. 293. Rothr. Fl. Alask. 447. Gray, Manual, 194. Matthew, Fl. Acad. 21.

Haloscias Scoticum, Fries. Lange, Fl. Groenl. 127.

L. tenuifolium.

Conioselinum Fischeri. Gray, Proc. Acad. Philad. 1863, 63, in part.

MUSENIUM divaricatum. Nutt.; Torr. & Gray, Fl. 1. 642. Walp. Rep. 2. 427. Hook. Lond. Journ. Bot. 6. 237. Gray, Pl. Wright. 1. 79; Pac. R. Rep. 12. 43, **t. 2.** Engelm. Pl. Upp. Miss. 193.

Seseli lucidum. Nutt. in Fraser's Cat. 1813.

Seseli divaricatum. Pursh, 732. Bradbury, Cat. 336. Nutt. Genera, 1. 194. Spreng. in Roem. & Schult. Syst. 6. 406; Syst. 1. 886. DC. Prodr. 4. 146. Don, Mill. 3. 309. Dietr. 2. 956. Eat. & Wr. 423. Hook. f. Arct. Pl. 293.

Marathrum divaricatum. Raf. Journ. Phys. 89. 101 (Spreng. in Roem. & Schult. Syst. 6. 406).

Adorium crassifolium. Raf.; Seringe, Bull. Bot. Soc. Genev. 1830, 214 (Litt.-Ber. zu Linnæa, 1833, 82). Raf. New Flora, 1. 66.

Var. **Hookeri.** Torr. & Gray, l. c. Walp. l. c. Gray, Pac. R. Rep. 12. 43.

Seseli divaricatum. Hook. Fl. Bor.-Am. 1. 264. Sims, Bot. Mag. **t. 1742.**

M. angustifolium. Nutt.; Torr. & Gray, Fl. 1. 642. Walp. l. c.

M. trachyspermum. Nutt. l. c. Walp. l. c. Gray, Proc. Acad. Philad. 1863, 63. Boland. Cat. 13. Porter, Fl. Col. 51. Rothr. Pl. Wheeler, 40.

M. tenuifolium. Nutt.; Torr. & Gray, Fl. 1. 642. Walp. l. c. Torrey, Frem. Rep. 90. Gray, Pl. Wright. 1. 79. Pl. Bourgeau, 263.

ŒNANTHE Californica. Watson, Proc. Am. Acad. 11. 139. Brew. & Wats. Bot. Calif. 1. 264.

Œ. sarmentosa. Boland. Cat. 14.

Œ. sarmentosa. Presl, DC. Prodr. 4. 138. Don, Mill. 3. 303. Nutt.; Torr. & Gray, Fl. 1. 617. Dietr. 2. 952. Eat. & Wr. 330. Walp. Rep. 2. 400. Cooper, Pac. R. Rep. 12. 62. Gray, Proc. Am. Acad. 8. 385. Torrey, Bot. Wilkes, 320. Brew. & Wats. Bot. Calif. 1. 264.

? *Phellandrium aquaticum.* Pursh, 195.

Œnanthe Phellandrium. Nutt. Genera, 1. 189. Eat. & Wr. 330.

OREOSCIADIUM acaule. Gray, Proc. Am. Acad. 7. 343.

Deweya (?) acaulis. Torrey, Pac. R. Rep. 4. 94.

OROGENIA linearifolia. Watson, King's Rep. 5. 120, **t. 15**, f. **1–3**.

OSMORRHIZA brachypoda. Torrey; Durand, Pl. Pratten. 89. Torrey, Pac. R. Rep. 4. 93; Mex. Bound. 71. Brew. & Wats. Bot. Calif. 1. 262.

O. brevistylis. DC. Prodr. 4. 232. Hook. Fl. 1. 272, in part & excl. t. Don, Mill. 3. 370. Beck, Bot. 150. Darling. Fl. Cestr. 200. Torr. & Gray, Fl. 1. 638, in part. Eat. & Wr. 336. Walp. Rep. 2. 423. Torrey, Fl. N. Y. 1. 282; Nicol. Rep. 150. Hook. Lond. Journ. Bot. 6. 237. Engelm. Pl. Upp. Miss. 193. Chapman, 166. Pl. Bourgeau, 257. Gray, Manual, 197. Watson, King's Rep. 5. 122.

Myrrhis Claytoni. Michx. Fl. 1. 170. Poir. Suppl. 4. 49. Spreng. Umbel. 129, **t. 3, f. 6**; Roem. & Schult. Syst. 6. 508, in part; Syst. 1. 901. Torrey, Fl. U. S. 309.

Chærophyllum Claytoni. Persoon, 1. 320. Pursh, 195. Elliott, 1. 358.

Scandix dulcis. Muhl. Cat. 31.

O. dulcis. Raf. 1817; Med. Bot. 2. 249.

Uraspermum hirsutum. Bigel. Fl. Bost. 2 ed. 112.

Myrrhis brevistylis. Dietr. 2. 984.

O. longistylis. DC. Prodr. 4. 232. Hook. Fl. Bor.-Am. 1. 271, **t. 96.** Don, Mill. 3. 369. Beck, Bot. 150. Darling. Fl. Cestr. 199. Torr. & Gray, Fl. 1. 638. Eat. & Wr. 336. Nees, Pl. Neuwied, 10. Walp. Rep. 2. 423. Torrey, Fl. N. Y. 1. 281, **t. 38**; Nicol. Rep. 150. Parry, Pl. Minn. 613. Engelm. Pl. Upp. Miss. 193. Gray, Pac. R. Rep. 12. 43; Struct. Bot. 427, **f. 851–855**; Manual, 197. Pl. Bourgeau, 257. Miquel, Ann. Mus. Lugd.-Bat. 3. 64.

Uraspermum Claytoni. Nutt. Genera, 1. 193. Barton, Comp. Fl. Phil. 1. 144. Spreng. in Roem. & Schult. Syst. 6. 508. Bigel. Fl. Bost. 2 ed. 112.

Myrrhis longistylis. Torrey, Fl. U. S. 310. Beck, Am. Journ. Sci. 1. 11. 175.

O. villosa & cordata. Raf. Med. Bot. 2. 249.

Myrrhis Claytoni. Dietr. 2. 984.

O. nuda. Torrey, Pac. R. Rep. 4. 93; Bot. Wilkes, 324. Newberry, Pac. R. Rep. 6. 75. Rothr. Fl. Alask. 447. Anderson, Cat. Pl. Nev. 121. Watson, l. c. Boland. Cat. 13. Porter, Hayd. Rep. 1871, 484; Fl. Col. 50. Coulter, Hayd. Rep. 1872, 768. Gray, Proc. Am. Acad. 8. 386. Brew. & Wats. Bot. Calif. 1. 262.

O. brevistylis. Bongard, Veg. Sitch. 142. Hook. Fl. Bor.-Am. 1. 272, in part, **t. 97**. Torr. & Gray, Fl. 1. 638, in part. Ledeb. Fl. Ross. 2. 354, in part.

O. divaricata. Nutt.; Torr. & Gray, Fl. 1. 639.

PASTINACA SATIVA, Linn. Pursh, 196. Barton, Comp. Fl. Phil. 1. 140. Torrey, Fl. U. S. 314; Fl. N. Y. 1. 278. Bigel. Fl. Bost. 2 ed. 113. Hook. Fl. Bor.-Am. 1. 269. Darling. Fl. Cestr. 196. Torr. & Gray, Fl. 1. 632. Eat. & Wr. 344.

PEUCEDANUM ambiguum. Nutt.; Torr. & Gray, Fl. 1. 626. Walp. Rep. 2. 411. Watson, Proc. Am. Acad. 11. 142. Brew. & Wats. Bot. Calif. 1. 269.

Eulophus ambiguus. Nutt. Journ. Acad. Philad. 7. 27. Eat. & Wr. 240.

P. lævigatum. Nutt.; Torr. & Gray, Fl. 1. 627. Hook. Lond. Journ. Bot. 6. 236.

P. tenuissimum. Hook. Lond. Journ. Bot. 6. 235. Walp. Ann. 1. 352.

P. abrotanifolium. Nutt. Pl. Gambel. in Proc. Acad. Philad. 4. 26, & Journ. 1. 184.

P. bicolor. Watson, King's Rep. 5. 129; Proc. Am. Acad. 11. 144.

P. caruifolium. Torr. & Gray, Fl. 1. 628. Walp. Rep. 2. 412. Engelm. Pl. Upp. Miss. 193? Torrey, Pac. R. Rep. 4. 92. Newberry, same, 6. 75. Boland. Cat. 13. Watson, Proc. Am. Acad. 11. 143. Brew. & Wats. Bot. Calif. 1. 269.

Ferula caruifolia. Hook. & Arn. Bot. Beechey, 347.

P. marginatum. Benth. Pl. Hartw. 312. Walp. Ann. 2. 708.

P. dasycarpum. Torr. & Gray, Fl. 1. 628. Torrey, Pac. R. Rep. 4. 93; Mex. Bound. 70. Watson, l. c. 145. Brew. & Wats. l. c. 270.

P. tomentosum. Benth. Pl. Hartw. 312. Walp. Ann. 2. 708. Torrey, Pac. R. Rep. 4. 92. Boland. Cat. 13.

P. fœniculaceum. Hook. & Arn. Bot. Beechey, 348? Torrey, Mex. Bound. 70. Boland. Cat. 14.

P. Euryptera. Gray, Proc. Am. Acad. 7. 348. Watson, l. c. 142. Brew. & Wats. l. c. 269.

Euryptera lucida. Nutt.; Torr. & Gray, Fl. 1. 629. Walp. Rep. 5. 885. Torrey, Mex. Bound. 70, **t. 27.** Referred to *Peucedanum* by Benth. & Hook. Gen. Pl. 1. 920.

P. farinosum. Geyer; Hook. Lond. Journ. Bot. 6. 235. Walp. Ann. 1. 352. Brew. & Wats. Bot. Calif. 1. 269.

P. fœniculaceum. Nutt.; Torr. & Gray, Fl. 1. 627. Walp. Rep. 2. 412. Torrey, Nicol. Rep. 150. Hook. Lond. Journ. Bot. 6. 236. Engelm. Pl. Upp. Miss. 193. Watson, Proc. Am. Acad. 11. 143. Brew. & Wats. l. c. 270.

Ferula fœniculacea. Nutt. Genera, 1. 183. James, Cat. 178; Long's Exped. 2. 104. Torrey, Ann. Lyc. N. Y. 2. 206. DC. Prodr. 4. 174. Hook. Fl. Bor.-Am. 1. 268, in part. Don, Mill. 3. 327. Dietr. 2. 965. Eat. & Wr. 245.

Pastinaca fœniculacea. Spreng. in Roem. & Schult. Syst. 6. 587; Syst. 1. 913. Nees, Pl. Neuwied, 10.

Lomatium villosum. Raf. Journ. Phys. 1819, 101.

Cogswellia villosa. Spreng. in Roem. & Schult. Syst. 6. 588.

Lomatium pubescens. Raf.; Seringe, Bull. Bot. Soc. Genev. 1830, 214 (Litt.-Ber. zu Linnæa, 1833, 82).

P. Geyeri.

P. ambiguum. Hook. Lond Journ. Bot. 6. 235. Torrey, Bot. Wilkes, 318.

P. graveolens. Watson, King's Rep. 5. 128; Proc. Am. Acad. 11. 142.

Musenium tenuifolium. Hook. Lond. Journ. Bot. 6. 237. Referred to *Peucedanum* by Benth. & Hook. Gen. Pl. 1. 884.

Var. **alpinum.** Watson, King's Rep. 5. 128.

P. Hallii. Watson, Proc. Am. Acad. 11. 141. Brew. & Wats. Bot. Calif. 1. 269.

P. nudicaule. Gray, Proc. Am. Acad. 8. 385.

P. leiocarpum. Nutt.; Torr. & Gray, Fl. 1. 626. Walp. Rep. 2. 411. Hook. Lond. Journ. Bot. 6. 234. Torrey, Pac. R. Rep. 4. 92; Bot. Wilkes, 317. Cooper, Pac. R. Rep. 12. 63. Boland. Cat. 13. Watson, l. c. 141. Brew. & Wats. l. c. 268.

Seseli leiocarpum. Hook. Fl. Bor.-Am. 1. 263, **t. 93.** Don, Mill. 3. 309. Eat. & Wr. 423.

P. triternatum. Gray, Proc. Am. Acad. 8. 385.

P. macrocarpum. Nutt.; Torr. & Gray, Fl. 1. 627. Walp. Rep. 2. 412. Hook. Lond. Journ. Bot. 6. 236. Torrey, Pac. R. Rep. 4. 92; Bot. Wilkes, 319. Pl. Bourgeau, 257. Anderson, Cat. Pl. Nev. 121. Watson, King's Rep. 5. 130; Proc. Am. Acad. 11. 144. Gray, Proc. Am. Acad. 8. 385. Parry, Am. Naturalist, 9. 272. Brew. & Wats. Bot. Calif. 1. 270.

Ferula fœniculacea. Hook. Fl. Bor.-Am. 1. 268, in part.
Ferula macrocarpa. Hook. & Arn. Bot. Beechey, 348.
P. fœniculaceum. Newberry, Pac. R. Rep. 6. 75? Cooper, same, 12. 62? Gray, Ives' Rep. 15?
P. nudicaule. Anderson, Cat. Pl. Nev. 121, in part. Boland. Cat. 13.
Thaspium macrocarpum. Pl. Bourgeau, 287.

Var. (?) **eurycarpum.** Gray, Proc. Am. Acad. 8. 385. Watson, same, 11. 144. Brew. & Wats. l. c. 270.
P. nudicaule, var. (?) *ellipticum.* Torr. & Gray, Pac. R. Rep. 2. 121. Walp. Ann. 5. 75. Torrey, Pac. R. Rep. 4. 92.

P. millefolium. Watson, King's Rep. 5. 129; Proc. Am. Acad. 11. 143. Brew. & Wats. l. c. 270.
Ferula fœniculacea. Hook. Fl. Bor.-Am. 1. 268, in part.
P. fœniculaceum. Cooper, Pac. R. Rep. 12. 63? Torrey, Bot. Wilkes, 318.
P. fœniculaceum, var. *daucifolium.* Torr. & Gray, Fl. 1. 627. Walp. Rep. 2. 412.

P. Nevadense. Watson, Proc. Am. Acad. 11. 143. Brew. & Wats. l. c.
Cymopterus glomeratus, var. Gray, Ives' Rep. 15.
P. nudicaule. Anderson, Cat. Pl. Nev. 121, in part. Watson, King's Rep. 5. 130.

P. nudicaule. Nutt.; Torr. & Gray, Fl. 1. 627. Walp. Rep. 2. 411. Engelm. Pl. Upp. Miss. 193. Gray, Proc. Acad. Philad. 1863, 62. Torrey, Bot. Wilkes, 319. Porter, Fl. Col. 52. Watson, Proc. Am. Acad. 11. 144.
Smyrnium nudicaule. Pursh, 196.
Ferula nudicaulis. Nutt. Genera, 1. 183.
Pastinaca nudicaulis. Spreng. in Roem. & Schult. Syst. 6. 587; Syst. 1. 913.
Ferula Nuttalli. DC. Prodr. 4. 174. Hook. Fl. Bor.-Am. 1. 268. Don, Mill. 3. 327. Dietr. 2. 965. Eat. & Wr. 245.
Leptotænia dissecta. Gray, Am. Journ. Sci. 2. 33. 408.

P. Nuttallii. Watson, King's Rep. 5. 128; Proc. Am. Acad. 11. 142. Brew. & Wats. Bot. Calif. 1. 268.
P. latifolium. Nutt. l. c. Walp. l. c. Torrey, Bot. Wilkes, 317.

P. Ostruthium, Koch. (Doubtful; Newfoundland, not recent.)
Imperatoria Ostruthium, Linn. DC. l. c. 183. Hook. l. c. Torr. & Gray, Fl. 1. 629.

P. Parryi. Watson, Proc. Am. Acad. 11. 143.
P. macrocarpum. Parry, Am. Naturalist, 9. 271.

P. parvifolium. Torr. & Gray, Fl. 1. 628. Walp. Rep. 2. 412. Torrey, Mex. Bound. 70. Boland. Cat. 14. Watson, l. c. 142. Brew. & Wats. Bot. Calif. 1. 269.
Ferula parvifolia. Hook. & Arn. Bot. Beechey, 348.

P. sativum, Benth. & Hook. Watson, King's Rep. 5. 128; Pl. Wheeler, 9.
Pastinaca sativa, Linn. Pursh, 196. Bigelow, Fl. Bost. 2 ed. 113. Beck, Bot. 148. Torr. & Gray, Fl. 1. 632. Gray, Manual, 192.

P. simplex. Nutt.; Watson, King's Rep. 5. 129; Proc. Am. Acad. 11. 142. Coulter, Hayd. Rep. 1872, 768. Brew. & Wats. Bot. Calif. 1. 269.
P. triternatum. Torrey, Sitgr. Rep. 160.
P. triternatum, var. *platycarpum.* Torrey, Stansb. Rep. 389. Durand, Fl. Utah, 165.

P triternatum. Nutt.; Torr. & Gray, Fl. 1. 626; not Eckl. & Zeyh. Hook. Lond. Journ. Bot. 6. 235. Newberry, Pac. R. Rep. 6. 75. Anderson, Cat. Pl. Nev. 121. Torrey, Bot. Wilkes, 318. Watson, Proc. Am. Acad. 11. 142. Brew. & Wats. Bot. Calif. 1. 268.

Seseli triternatum. Pursh, 197. Spreng. in Roem. & Schult. Syst. 6. 405; Syst. 1. 886. DC. Prodr. 4. 146. Hook. Fl. Bor.-Am. 1. 264, **t. 94.** Don, Mill. 3. 309. Hook. & Arn. Bot. Beechey, 348. Dietr. 2. 956. Eat. & Wr. 423.

Eulophus triternatus. Nutt. in Journ. Acad. Philad. 7. 27. Eat. & Wr. 240.

P. Nuttallii. Walp. Rep. 2. 411.

Var. **leptocarpum.** Torr. & Gray, l. c. Hook. l. c. 6. 235. Torrey, l. c. 318.

P. Nuttallii, var. *leptocarpum.* Walp. l. c.

P. utriculatum. Nutt.; Torr. & Gray, Fl. 1. 628. Walp. Rep. 2. 412. Benth. Pl. Hartw. 312. Durand, Pl. Pratten. 89. Torrey, Pac. R. Rep. 4. 92 & 7. 12; Bot. Wilkes, 319. Newberry, Pac. R. Rep. 6. 75. Gray, Proc. Bost. Soc. 7. 146; Proc. Am. Acad. 8. 385. Boland. Cat. 13. Watson, l. c. 143. Brew. & Wats. l. c. 269.

P. villosum. Nutt.; Watson, King's Rep. 5. 131; Proc. Am. Acad. 11. 144. Brew. & Wats. l. c. 270.

P. fœniculaceum, var. γ. Torr. & Gray, Fl. 1. 627.

P. abrotanifolium; ambiguum.
ambiguum; Geyeri.
fœniculaceum; dasycarpum, macrocarpum, millefolium, villosum.
lævigatum; ambiguum.
latifolium; Nuttallii.
macrocarpum; Parryi.
marginatum; caruifolium.
Newberryi; Ferula Newberryi.
nudicaule; Hallii, macrocarpum, Nevadense.

P. Nuttallii; triternatum.
officinale; Archemora ternata.
tenuissimum; ambiguum.
teretifolium; Tiedemannia teretifolia.
ternatum; Archemora ternata.
tomentosum; dasycarpum.
triternatum; leiocarpum, simplex, Carum Gairdneri.
——*?;* Euryptera graveolens.

PIMPINELLA apiodora. Gray, Proc. Am. Acad. 7. 345. Boland. Cat. 13. Watson, King's Rep. 5. 121. Brew. & Wats. Bot. Calif. 1. 260.

Var. **nudicaulis.** Gray, Proc. Am. Acad. 8. 385.

P. integerrima. Benth. & Hook. Gen. Pl. 1. 894. Gray, Proc. Am. Acad. 7. 345.

Smyrnium integerrimum. Linn. Spec. 263. Hill, Veg. Syst. 6. 60, t. **58**, f. 3. Crantz, Umbel. 74. Desrous. in Lam. Dict. 3. 667. Willd. Spec. 1. 1468. Michx. Fl. 1. 171. Persoon, 1. 322. Ait. f. Hort. Kew. 2. 158. Pursh, 196. Nutt. Genera, 1. 195. Elliott, 1. 360. Barton, Comp. Fl. Phil. 1. 146.

? *Angelica integrifolia.* Walter, 115. Gmelin, Syst. 1. 482. Spreng. in Roem. & Schult. Syst. 6. 608. DC. Prodr. 4. 169. Don, Mill. 3. 323.

Sison integerrimus. Spreng. l. c. 6. 410; Syst. 1. 886. Torrey, Fl. U. S. 305.

Zizia integerrima. DC. Rapp. Pl. Rar. Jard. Gen. 3. 7; Prodr. 4. 100. Don, Mill. 3. 276. Beck, Bot. 143. Darling. Fl. Cestr. 187. Torr. & Gray, Fl. 1. 614. Dietr. 2. 940. Eat. & Wr. 485. Torrey, Fl. N. Y. 1. 271. Parry, Pl. Minn. 613. Chapman, 163. Gray, Manual, 195.

P. integrifolia. Wood, Bot. & Fl. 139.

PHELLOPTERUS littoralis. Schmidt, Fl. Sachel. in Mem. Acad. Petrop. 7. 12. 138.

? *Cymopterus (?) littoralis.* Gray, Mem. Am. Acad. 6. 391; Pac. R. Rep. 12. 62. Benth. & Hook. Gen. Pl. 1. 905.

Glehnia littoralis. Schmidt in Miquel, Prol. Fl. Jap. 240.

PODOSCIADIUM Bolanderi. Gray, Proc. Am. Acad. 7. 346. Brew. & Wats. Bot. Calif. 1. 263.

P. Californicum. Gray, l. c. 345. Brew. & Wats. l. c.

Cærophyllum (?) Californicum. Torrey, Pac. R. Rep. 4. 93.

POLYTÆNIA Nuttallii. DC. Mem. Umbel. 53, **t. 13**; Prodr. 4. 196. Don, Mill. 3. 344. Torr. & Gray, Fl. 1. 633; Pac. R. Rep. 2. 165. Eat. & Wr. 370. Torrey, Nicol. Rep. 150; Frem. Rep. 90; Marcy's Rep. 287. Parry, Pl. Minn. 613. Darby, Bot. 336. Gray, Manual, 191; Hall's Pl. Texas, 11. Young, Fl. Texas, 301.

? *Ferula Drummondii.* Hook. & Arn. Comp. Bot. Mag. 1. 47.

Pachiloma Nuttallii & *verticillata.* Raf. New Flora, 4. 33.

? *Phaiosperma trifida* & *pulverulenta.* Raf. l. c. 32.

Zozimia Nuttallii. Dietr. 2. 973.

SANICULA arctopoides. Hook. & Arn. Bot. Beechey, 141 & 347. Hook. Fl. Bor.-Am. 1. 258, **t. 91.** Don, Mill. 3. 265. Torr. & Gray, Fl. 1. 603. Eat. & Wr. 411. Walp. Rep. 2. 388. Benth. Pl. Hartw. 312. Torrey, Pac. R. Rep. 4. 91; Mex. Bound. 70. Boland. Cat. 13. Brew. & Wats. Bot. Calif. 1. 256.

S. bipinnata. Hook. & Arn. l. c. 347. Torr. & Gray, Fl. 1. 603. Walp. Rep. 2. 388. Benth. Pl. Hartw. 312. Torrey, Pac. R. Rep. 4. 91; Bot. Wilkes, 314 (as *S. pinnatifida*). Cooper, Pac. R. Rep. 12. 62. Brew. & Wats. Bot. Calif. 1. 257.

S. bipinnatifida. Dougl.; Hook. Fl. Bor.-Am. 1. 258, **t. 92.** Don, Mill. 3. 265. Torr. & Gray, Fl. 1. 603. Eat. & Wr. 411. Walp. Rep. 2. 388. Benth. Pl. Hartw. 312. Durand, Pl. Pratten. 89. Torrey, Pac. R. Rep. 4. 91 & 7. 12; Mex. Bound. 70; Bot. Wilkes, 314. Newberry, Pac. R. Rep. 6. 75. Cooper, same, 12. 62. Boland. Cat. 13. Gray, Proc. Am. Acad. 8. 385. Brew. & Wats. l. c. 256.

S. Canadensis. Linn. Spec. 235. Hill, Veg. Syst. 6. 8, **t. 6, f. 2.** Willd. Spec. 1. 1366. Poir. Dict. 6. 500. Persoon, 1. 303. Ait. f. Hort. Kew. 2. 119. Pursh, 191. Spreng. Spec. Umbel. 15; Roem. & Schult. Syst. 6. 339; Syst. 1. 874. Muhl. Cat. 30. Cham. & Schlecht. in Linnæa, 1. 353 & 8. 331. DC. Prodr. 4. 84. Dietr. 2. 934. Eat. & Wr. 411. Torrey, Fl. N. Y. 1. 265, **t. 32.** Gray, Pl. Lindh. 209; Manual, 190. Darling. Fl. Cestr. 2 ed. 99. Parry, Pl. Minn. 613. Engelm. Pl. Upp. Miss. 193. Chapman, 159.

Cancalis Canadensis. Crantz, Umbel. 110.

Triclinium odoratum. Raf. Fl. Lud. 79.

S. Marylandica, var. *Canadensis.* Torrey, Fl. U. S. 302. Hook. Fl. Bor.-Am. 1. 257. Beck, Bot. 141.

S. (!) *Triclinium.* DC. Prodr. 4. 85. Don, Mill. 3. 264. Dietr. 2. 935. Eat. & Wr. 411.

S. Marylandica. Torr. & Gray, Fl. 1. 602, in part.

S. laciniata. Hook. & Arn. Bot. Beechey, 347. Torr. & Gray, Fl. 1. 602. Walp. Rep. 2. 388. Benth. Pl. Hartw. 312. Torrey, Pac. R. Rep. 4. 91; Mex. Bound. 70. Newberry, Pac. R. Rep. 6. 75. Boland. Cat. 13. Brew. & Wats. l. c. 256.

S. nudicaulis. Hook. & Arn. Bot. Beechey, 347. Torr. & Gray, Fl. 1. 602. Walp. Rep. 2. 388. Boland. Cat. 13.

S. maritima. Kellogg, ined.

S. Marylandica. Linn. Spec. 235. Hill, Veg. Syst. 6. 8, **t. 6, f. 3.** Jacquin, Collect. Bot. 2. 293; Icon. Rar. **t. 348.** Walter, 113. Ait. Hort. Kew. 1. 328. Lam. Ill. 2. 334, **t. 191, f. 2.** Willd. Spec. 1. 1367; Enum. 299. Michx. Fl. 1. 162. Poir. Dict. 6. 501. Persoon, 1. 304. Hoffm. Umbel. 1. 69. Pursh, 191. Bigel. Fl. Bost. 67. Spreng. Spec. Umbel. 16; Roem. & Schult. Syst. 6. 340; Syst. 1. 874.

Elliott, 1. 348. Torrey, Fl. U. S. 302, excl. var.; Fl. N. Y. 1. 264, **t. 31**; Bot. Wilkes, 314. Cham. & Schlecht. in Linnæa, 1. 353. DC. Prodr. 4. 84. Hook. Fl. Bor.-Am. 1. 257, excl. syn.; Comp. Bot. Mag. 1. 47. Don, Mill. 3. 264. Beck, Bot. 141. Fisch. & Meyer, Ind. Sem. Petrop. 3. 17 (Litt.-Ber. zu Linnæa, 1838, 106). Darling. Fl. Cestr. 184. Torr. & Gray, Fl. 1. 602, in part. Dietr. 2. 934. Eat. & Wr. 411. Gray, Pl. Fendl. 55; Pac. R. Rep. 12. 43; Manual, 190. Parry, Pl. Minn. 613. Engelm. Pl. Minn. 193. Chapman, 159. Pl. Bourgeau, 257. Porter, Fl. Col. 53.

Caucalis Marylandica. Crantz, Umbel. 110.

S. Menziesii. Hook. & Arn. Bot. Beechey, 142 & 347. Hook. Fl. Bor.-Am. 1. 258, **t. 90**. Don, Mill. 3. 264. Torr. & Gray, Fl. 1. 602. Eat. & Wr. 411. Walp. Rep. 2. 387. Benth. Pl. Hartw. 312. Torrey, Pac. R. Rep. 4. 91; Mex. Bound. 70; Bot. Wilkes, 314. Cooper, Pac. R. Rep. 12. 62. Boland. Cat. 13. Gray, Proc. Am. Acad. 8. 385. Watson, same, 11. 115. Brew. & Wats. Bot. Calif. 1. 256.

S. Nevadensis. Watson, Proc. Am. Acad. 11. 139. Brew. & Wats. l. c.

? *S.* ——? Anderson, Cat. Pl. Nev. 121.

S. tuberosa. Torrey, Pac. R. Rep. 4. 91. Boland. l. c. Brew. & Wats. l. c. 257.

SELINUM Benthami. [Watson, Proc. Am. Acad. 11. 140, innom.] The following citations refer in part to this species, in part to a second undescribed one. See Benth. & Hook. Gen. Pl. 1. 915.

Ligusticum Gmelini. Cham. & Schlecht. in Linnæa, 1. 391, excl. syn.

Conioselinum Fischeri. Bongard, Veg. Sitch. 142; not Wimm. Hook. & Arn. Bot. Beechey, 124. Hook. Fl. Bor.-Am. 1. 266. Don, Mill. 3. 321, in part. Torr. & Gray, Fl. 1. 619. Ledeb. Fl. Ross. 2. 290, in part. Seem. Bot. Herald, 32 & 52. Hook. f. Arct. Pl. 292 & 330. Rothr. Fl. Alaska, 447.

Laserpitium hirsutum. Hook. & Arn. Bot. Beechey, 125. Hook. Fl. Bor.-Am. 1. 270. Don, Mill. 3. 351, in part. Torr. & Gray, Fl. 1. 635.

S. Canadense. Michx. Fl. 1. 165. Persoon, 1. 309. Poir. Dict. 7. 66. Pursh, 192. Elliott, 1. 351. Benth. & Hook. Gen. Pl. 1. 915. Wood, Bot. & Fl. 140.

? *Athamanta Chinensis.* Linn. Spec. 245.

Apium bipinnatum. Walter, 115.

Cnidium Canadense. Spreng. in Roem. & Schult. Syst. 6. 415, excl. syn. in part; Syst. 1. 888. Torrey, Fl. U. S. 306. DC. Prodr. 4. 153. Hook. Fl. Bor.-Am. 1. 264. Don, Mill. 3. 314. Beck, Bot. 145. Dietr. 2. 958. Eat. & Wr. 202.

Conioselinum (?) *Canadense.* Torr. & Gray, Fl. 1. 619; Pac. R. Rep. 2. 127. Walp. Rep. 2. 405. Torrey, Fl. N. Y. 1. 275, **t. 35**. Chapman, 164. Matthew, Fl. Acad. 20. Gray, Manual, 193.

S. capitellatum. Benth. & Hook. Gen. Pl. 1. 915. Watson, King's Rep. 5. 126. Brew. & Wats. Bot. Calif. 1. 265.

Sphænosciadium capitellatum. Gray, Proc. Am. Acad. 6. 536. Anderson, Cat. Pl. Nev. 121.

S. Kingii. Watson, King's Rep. 5. 126. Brew. & Wats. Bot. Calif. 1. 265.

S. Pacificum. Watson, Proc. Am. Acad. 11. 140. Brew. & Wats. l. c.

SISON *Ammi;* Apium leptophyllum.
aureus; Thaspium aureum.
bulbosus; Erigenia bulbosa.
Canadense; Cryptotænia Canadensis.
capillaceus; Discopleura capillacea.
divaricatus; Apium divaricatum.
S. integerrimus; Pimpinella integerrima.
majus; Ammi majus.
marginatum: Archemora rigida.
pusillum: Apium divaricatum.
rubricaule; Discopleura capillacea.
trifoliatum; Thaspium aureum.

SIUM Carsoni. Durand; Gray, Proc. Am. Acad. 7. 345; Manual, 196. Brew. & Wats. Bot. Calif. 1. 261.

Helosciadium nodiflorum? Gray, Manual, 4 ed. Addenda.

Apium Carsonii. Benth. & Hook. Gen. Pl. 1. 888. Wood, Bot. & Fl. 140.

S. cicutæfolium. Gmelin, Syst. 2. 482. See syn. in DC. Prodr. 4. 110 (as *Falcaria Dahurica*); Ledeb. Fl. Ross. 2. 260; Benth. & Hook. Gen. Pl. 1. 888, as *Apium*. —Brew. & Wats. Bot. Calif. 1. 261.

? *S. suave.* Walter, 115. Poir. Suppl. 1. 622.

S. lineare. Michx. Fl. 1. 167. Persoon, 1. 316. Poir. Suppl. 1. 621. Pursh, 194. Nutt. Genera, 1. 186. Spreng. in Roem. & Schult. Syst. 6. 538; Syst. 1. 906. Torrey, Fl. U. S. 311; Fl. N. Y. 1. 268; Nicol. Rep. 160; Bot. Wilkes, 316. DC. Prodr. 4. 125. Hook. Fl. Bor.-Am. 1. 262; Comp. Bot. Mag. 1. 47. Don, Mill. 3. 295. Beck, Bot. 144. Torr. & Gray, Fl. 1. 611. Dietr. 2. 948. Eat. & Wr. 430. Bigel. Fl. Bost. 3 ed. 119. Engelm. Pl. Upp. Miss. 193. Rich. Arct. Exped. 65. Dur. & Hilg. Pac. R. Rep. 5. 8. Pl. Bourgeau, 257. Gray, Proc. Am. Acad. 7. 345 & 8. 386; Manual, 196. Watson, King's Rep. 5. 121. Coulter, Hayd. Rep. 1872, 767. Porter, Fl. Col. 49. Rothr. Pl. Wheeler, 40.

S. tenuifolium. Muhl. Cat. 30.

S. latifolium. Bigel. Fl. Bost. 69; not Linn. Muhl. Cat. 30. Nutt. Genera, 1. 186. James, Long's Exped. 2. 343. Torrey, Fl. U. S. 311; Ann. Lyc. N. Y. 2. 207; Fl. N. Y. 1. 268; Emory's Rep. 408. Hook. Fl. Bor.-Am. 1. 262; Comp. Bot. Mag. 1. 47. Beck, Bot. 144. Darling. Fl. Cestr. 190. Torr. & Gray, Fl. 1. 611. Eat. & Wr. 430. Hook. f. Arct. Pl. 330. Anderson, Cat. Pl. Nev. 121. Boland. Cat. 13.

? *S. rugosum.* Raf. Med. Bot. 2. 264.

Sinnis heterophylla. Raf. New Flora, 4. 31.

Apium lineare. Benth. & Hook. Gen. Pl. 1. 888 & 893. Wood, Bot. & Fl. 140.

S. angustifolium; Berula angustifolia.
bulbosum; Erigenia bulbosa.
Canadense; Cryptotænia Canadensis.
denticulatum; Archemora rigida.
Douglasii; Cicuta maculata.
incisum; Berula angustifolia.
latifolium; cicutæfolium, Berula angustifolia.
lineare; cicutæfolium.
S. longifolium & *marginatum;* Archemora rigida.
nodiflorum; Apium nodiflorum.
pusillum; Berula angustifolia.
rigidius; Archemora rigida.
rugosum, suave & *tenuifolium;* cicutæfolium.
teretifolium; Tiedemannia teretifolia.
tricuspidatum; Archemora rigida.
trifoliatum; Thaspium aureum.

THASPIUM aureum. Nutt. Genera, 1. 196. Torr. & Gray, Fl. 1. 616. Walp. Rep. 2. 404. Torrey, Fl. N. Y. 1. 273. Darling. Fl. Cestr. 2 ed. 102. Parry, Pl. Minn. 613. Engelm. Pl. Upp. Miss. 193. Chapman, 163. Gray, Manual, 195; Hall's Pl. Texas, 11.

Smyrnium aureum. Linn. Spec. 262. Hill, Veg. Syst. 6. 60, **t. 58, f. 2.** Crantz, Umbel. 74. Walter, 114. Ait. Hort. Kew. 1. 362. Desrous. in Lam. Dict. 3. 667. Willd. Spec. 1. 1468; Enum. 321. Michx. Fl. 1. 171. Persoon, 1. 322. Pursh, 196. Elliott, 1. 359. Bigel. Fl. Bost. 2 ed. 113.

Smyrnium luteum. Muhl. Ind. Fl. Lancast. 166.

Sium trifoliatum. Michx. Fl. 1. 168. Persoon, 1. 317. Hornem. Hort. Hafn. 2. 269. Willd. Enum. 314. Pursh, 194. Elliott, 1. 356.

Sium trifoliatum. Poir. Suppl. 1. 622.

Smyrnium acuminatum. Smith, Rees Cycl.

Sison aureus. Spreng. in Roem. & Schult. Syst. 6. 410; Syst. 1. 886. Torrey, Fl. U. S. 305.

Zizia aurea. Koch, Umbel. 129. DC. Prodr. 4. 100. Hook. Fl. Bor.-Am. 1. 260; Comp. Bot. Mag. 1. 47. Don, Mill. 3. 276. Beck, Bot. 143. Darling. Fl. Cestr. 185. Torr. & Gray, Fl. 1. 614. Dietr. 2. 940. Eat. & Wr. 485. Torrey, Fl. N. Y. 1. 271; Nicol. Rep. 150. Gray, Manual, 1 ed. 102. Parry, Pl. Minn. 613. Pl. Bourgeau, 257.

Var. **apterum**. Gray, Manual, 195.

Carum aureum. Benth. & Hook. Gen. Pl. 1. 891. Wood, Bot. & Fl. 138.

T. barbinode. Nutt. Genera, 1. 196. DC. Prodr. 4. 154. Don, Mill. 3. 315. Beck, Bot. 146. Darling. Fl. Cestr. 192. Torr. & Gray, Fl. 1. 616. Dietr. 2. 958. Eat. & Wr. 450. Walp. Rep. 2. 404. Torrey, Fl. N. Y. 1. 273; Nicol. Rep. 150. Parry, Pl. Minn. 613. Engelm. Pl. Upp. Miss. 193. Chapman, 163. Trevir. Bot. Zeit. 19. 10. Gray, Manual, 194. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 329.

Ligusticum barbinode. Michx. Fl. 1. 167. Persoon, 1. 315. Poir. Suppl. 3. 482. Pursh, 193. Elliott, 1. 352.

Smyrnium barbinode. Muhl. Cat. 31. Barton, Prodr. Fl. Phil. 38.

Thapsia trifoliata. Spreng. Spec. Umbel. 30; Roem. & Schult. Syst. 6. 615; Syst. 1. 917. Torrey, Fl. U. S. 317.

T. pinnatifidum. Gray, Manual, 194. Chapman, 163.

Zizia pinnatifida. Buckley, Am. Journ. Sci. 1. 45. 175.

T. Walteri. Shuttlw.; Benth. & Hook. Gen. Pl. 1. 913. Wood, Bot. & Fl. 139.

T. trifoliatum. Gray, Manual, 195. Chapman, 163. Watson, King's Rep. 5. 125. Porter, Hayd. Rep. 1871, 484; Fl. Col. 52. Coulter, Hayd. Rep. 1872, 768. Rothr. Pl. Wheeler, 40.

Smyrnium cordatum. Walter, 114. Michx. Fl. 1. 170. Persoon, 1. 322. Poir. Suppl. 3. 508. Pursh, 196. Elliott, 1. 359. Spreng. Spec. Umbel. 28; Roem. & Schult. Syst. 6. 438; Syst. 1. 891. Torrey, Fl. U. S. 307.

Smyrnium rotundifolium. Spreng. Pl. Min. Cog. 2. 54.

Smyrnium trifoliatum. Muhl. Cat. 31. Nutt. Genera, 1. 195. Barton, Comp. Fl. Phil. 1. 146. Rich. Frankl. Journ. Appx. 6.

Thaspium cordatum. Torr. & Gray, Fl. 1. 615; Pac. R. Rep. 2. 127. Walp. Rep. 2. 403. Durand, Fl. Utah, 165. Pl. Bourgeau, 257.

Carum cordatum. Benth. & Hook. Gen. Pl. 1. 891 & 913. Wood, Bot. & Fl. 138.

Var. **atropurpureum**. Gray, Manual, 195.

Thapsia trifoliata. Linn. Spec. 262. Hill, Veg. Syst. 6. 57, **t. 55, f. 4**. Willd. Spec. 1. 1465. Poir. Dict. 7. 612. Persoon, 1. 322. Ait. f. Hort. Kew. 2. 156.

Smyrnium atropurpureum. Desrous. in Lam. Dict. 3. 667. Persoon, 1. 322. Pursh, 196. Elliott, 1. 360.

T. atropurpureum. Nutt. Genera, 1. 196. Barton, Comp. Fl. Philad. 1. 146. DC. Prodr. 4. 154. Don, Mill. 3. 315. Beck, Bot. 146. Dietr. 2. 958. Eat. & Wr. 450. Torrey, Fl. N. Y. 1. 272, **t. 34**. Gray, Manual, 1 ed. 101.

Cnidium atropurpureum. Spreng. in Roem. & Schult. Syst. 6. 418; Syst. 1. 888. Torrey, Fl. U. S. 307. Eat. & Wr. 203.

Upopion pinnatum, etc. Raf. New Flora, 4. 30.

T. cordatum, var. Torr. & Gray, Fl. 1. 615.

Var. **apterum.** Gray, Manual, 195. Torrey, Bot. Wilkes, 320.

Zizia cordata. Koch, Umbel. 129. DC. Prodr. 4. 100. Hook. & Arn. Bot. Beechey, 347. Hook. Fl. Bor.-Am. 1. 260; Comp. Bot. Mag. 1. 47. Don, Mill. 3. 276. Beck, Bot. 143. Darling. Fl. Cestr. 186. Dietr. 2. 940. Eat. & Wr. 485. Torrey, Fl. N. Y. 1. 270, t. **33.** Gray, Manual, 1 ed. 161.

Zizia parvifolia. Raf. New Flora, 4. 31.

TIEDEMANNIA teretifolia. DC. Mem. Umbel. 51, t. **12**; Prodr. 4. 187. Don, Mill. 3. 338, f. **64.** Hook. Comp. Bot. Mag. 1. 47. Torr. & Gray, Fl. 1. 630. Chapman, 165. Gray, Manual, 192. Watson, Proc. Am. Acad. 11. 145.

Œnanthe filiformis. Walter, 113. Gmelin, Syst. 1. 485. Nutt. Genera, Addenda 2. Spreng. in Roem. & Schult. Syst. 6. 427, in part. Eat. & Wr. 330.

Œnanthe Carolinensis. Persoon, 1. 318. Pursh, 194. Spreng. Syst. 1. 888. Dietr. 2. 954.

Œnanthe teretifolia. Muhl. Cat. 31.

Sium teretifolium. Elliott, 1. 354.

Oxypolis Caroliniana. Raf.; Seringe, Bull. Bot. Soc. Genev. 1830, 214 (Litt.-Ber. zu Linnæa, 1833, 182).

Peucedanum teretifolium. Benth. & Hook. Gen. Pl. 1. 920. Wood, Bot. & Fl. 136.

TREPOCARPUS Æthusæ. Nutt.; DC. Mem. Umbel. 56, t. **14**; Prodr. 4. 201. Don, Mill. 3. 349. Hook. Comp. Bot. Mag. 1. 47. Torr. & Gray, Fl. 1. 634. Dietr. 2. 975. Eat. & Wr. 453. Darby, Bot. 337. Gray, Hall's Pl. Texas, 11.

T. brachycarpus. DC. Prodr. 4. 202. Don, Mill. 3. 349. Dietr. 2. 975. Eat. & Wr. 453.

Entasikon tenuifolium. Raf. New Flora, 4. 29.

ARALIACEÆ.

ARALIA Californica. Watson, Proc. Am. Acad. 11. 144. Brew. & Wats. Bot. Calif. 1. 273.

A. racemosa. Torrey, Pac. R. Rep. 4. 94. Anderson, Cat. Pl. Nev. 121. Boland. Cat. 14.

A. racemosa, var. *occidentalis.* Torrey, Bot. Wilkes, 325.

A. hispida. Ventenat, Hort. Cels, t. **41.** Michx. Fl. 1. 185. Persoon, 1. 332. Sims, Bot. Mag. t. **1085.** Poir. Suppl. 1. 417. Ait. f. Hort. Kew. 2. 179. Pursh, 209. Bigel. Fl. Bost. 122. Roem. & Schult. Syst. 6. 703. Spreng. Syst. 1. 952. Torrey, Fl. U. S. 328; Fl. N. Y. 1. 285. Lodd. Bot. Cab. t. **1306.** DC. Prodr. 4. 258. Hook. Fl. Bor.-Am. 1. 274. Don, Mill. 3. 389. Beck, Bot. 151. Darling. Fl. Cestr. 597. Torr. & Gray, Fl. 1. 647. Dietr. 2. 1035. Eat. & Wr. 131. Rich. Arct. Exped. 429. Schnitzl. Icon. t. **163**, f. **1.** Tuckerman, Josselyn's Rarities, 92. Chapman, 166. Pl. Bourgeau, 257. Miquel, Ann. Mus. Lugd.-Bat. 1. 9. Seem. Journ. Bot. 6. 135. Gray, Manual, 199.

A. Muhlenbergiana. Roem. & Schult. Syst. 6. 704.

A. humilis. Cav. Icon. 4. 7, t. **313.** DC. Prodr. 4. 258. Gray, Pl. Wright. 2. 65. Benth. & Hook. Gen. Pl. 1. 936. Seem. Journ. Bot. 6. 135. Brew. & Wats. Bot. Calif. 1. 273.

? *A. pubescens.* DC. Cat. Hort. Monsp. 1813, 80; Prodr. 4. 258. Seem. l. c.

A. nudicaulis. Linn. Spec. 274. Crantz, Umbel. 124. Hill, Veg. Syst. 16, t. **9**, f. **2.** Lam. Dict. 1. 224. Ait. Hort. Kew. 1. 382. Willd. Spec. 1. 1521; Enum. 333. Michx. Fl. 1. 185. Persoon, 1. 332. Pursh, 209. Bigel. Fl. Bost. 122.

Roem. & Schult. Syst. 6. 703. Elliott, 1. 373. James, Long's Exped. 2. 195. Rich. Frankl. Journ. Appx. 7. Torrey, Fl. U. S. 327; Ann. Lyc. N. Y. 2. 208; Fl. N. Y. 1. 285, **t. 40**; Nicol. Rep. 150. Spreng. Syst. 1. 951. Raf. Med. Bot. 1. 53, **f. 8**. DC. Prodr. 4. 257. Hook. Fl. Bor.-Am. 1. 274. Don, Mill. 3. 388. Beck, Bot. 151. Darling. Fl. Cestr. 209. Lindl. Fl. Med. 59. Spach, Hist. Veg. 8. 123. Torr. & Gray, Fl. 1. 646. Dietr. 2. 1034. Eat. & Wr. 131. Nees, Pl. Neuwied, 10. Parry, Pl. Minn. 613. Engelm. Pl. Upp. Miss. 193. Tuckerman, l. c. 92. Gray, Struct. Bot. 427, **f. 856–858**; Pac. R. Rep. 12. 44; Manual, 199. Chapman, 166. Pl. Bourgeau, 257. Seem. Journ. Bot. 6. 134. Brandegee, Fl. S. W. Col. 237.

A. quinquefolia. Decsne. & Planch. in Rev. Hortic. 1854, 104. Benth. & Hook. Gen. Pl. 1. 936. Gray, Manual, 199. Matthew, Fl. Acad. 20.

Panax quinquefolium. Linn. Spec. 1058. Hill, Veg. Syst. 5. 25, **t. 12, f. 1**. Crantz, Umbel. 122. Lam. Dict. 2. 713. Walter, 253. Ait. Hort. Kew. 3. 448. Willd. Spec. 4. 1124. Michx. Fl. 2. 256. Michx. f. Trav. 208. Persoon, 1. 298. Sims, Bot. Mag. **t. 1333**. Pursh, 191. Barton, Veg. Mat. Med. **t. 45**. Turpin, Dict. Sci. Nat. 18. 546, **t. 113**. Roem. & Schult. Syst. 6. 211. Bigel. Med. Bot. 3. 82, **t. 29**; Fl. Bost. 2 ed. 375. Torrey, Fl. U. S. 292; Fl. N. Y. 1. 286. Spreng. Syst. 1. 867. Raf. Med. Bot. 2. 52, **f. 71**. Nees, Pl. Med. Suppl. **t. 111**. DC. Prodr. 4. 252. Hook. Fl. Bor.-Am. 1. 273. Woodville, Med. Bot. 1. 149, **t. 58**. Don, Mill. 3. 384. Beck, Bot. 152. Darling. Fl. Cestr. 181. Lindl. Fl. Med. 59. Spach, Hist. Veg. 8. 114, **t. 39**. Torr. & Gray, Fl. 1. 647. Eat. & Wr. 339. C. A. Meyer, Bot. Zeit. 1. 685. Walp. Rep. 5. 925. Gray, Manual, 1 ed. 167. Chapman, 167. Lesqx. Fl. Ark. 364. Regel, Gartenfl. 1862, 314, **t. 375**. Seem. Journ. Bot. 2. 320 & 6. 54. Miquel, l. c. 14.

Panax Americanum. Raf. New Flora, 4. 58.

Ginseng quinquefolium. Wood, Bot. & Fl. 142.

A. racemosa. Linn. Spec. 273. Crantz, Umbel. 124. Hill, Veg. Syst. 16, **t. 9, f. 1**. Lam. Dict. 1. 224. Ait. Hort. Kew. 1. 382. Willd. Spec. 1. 1521; Enum. 332. Michx. Fl. 1. 185. Persoon, 1. 332. Schkuhr, Handb. 1. 250, **t. 86**. Pursh, 209. Bigel. Fl. Bost. 122. Roem. & Schult. Syst. 6. 702. Elliott, 1. 373. James, Long's Exped. 2. 195. Torrey, Fl. U. S. 327; Ann. Lyc. N. Y. 2. 208; Fl. N. Y. 1. 284. Spreng. Syst. 1. 951. DC. Prodr. 4. 258. Hook. Fl. Bor.-Am. 1. 274; Comp. Bot. Mag. 1. 48. Don, Mill. 3. 388. Beck, Bot. 151. Darling. Fl. Cestr. 209. Spach, Hist. Veg. 8. 122. Torr. & Gray, Fl. 1. 646. Dietr. 2. 1034. Eat. & Wr. 131. Parry, Pl. Minn. 613. Chapman, 166. Seem. Journ. Bot. 6. 135. Gray, Manual, 199.

A. spinosa. Linn. Spec. 273. Crantz, Umbel. 123. Lam. Dict. 1. 223. Marsh. Arbust. 11. Walter, 117. Ait. Hort. Kew. 1. 382. Willd. Spec. 1. 1520; Enum. 332. Michx. Fl. 1. 186. Persoon, 1. 332. Pursh, 209. Roem. & Schult. Syst. 6. 701. Elliott, 1. 372. James, Long's Exped. 3. 154. Torrey, Fl. U. S. 328; Ann. Lyc. N. Y. 2. 208. Spreng. Syst. 1. 951. DC. Prodr. 4. 259. Don, Mill. 3. 389. Beck, Bot. 151. Spach, Hist. Veg. 8. 120. Torr. & Gray, Fl. 1. 647. Dietr. 2. 1035. Eat. & Wr. 131. Loud. Arb. 2. 900, **f. 754**. Curtis, Bot. N. Car. 91. Chapman, 166. Pl. Bourgeau, 257. Seem. Journ. Bot. 6. 135. Gray, Manual, 199; Hall's Pl. Texas, 11.

? *Chærophyllum arborescens.* Linn. Spec. 259. Hill, Veg. Syst. 6. 55, **t. 53, f. 3**. Crantz, Umbel. 79. Lam. Dict. 1. 684. Willd. Spec. 1. 1457. Persoon, 1. 321. Don, Mill. 3. 367. Dietr. 2. 983.

A. trifolia. Decsne. & Planch. l. c. Benth. & Hook. l. c. Gray, Manual, 199.

Panax trifolium. Linn. Spec. 1058. Hill, Veg. Syst. 5. 25, **t. 12, f. 2**. Crantz, Umbel. 122. Lam. Dict. 2. 714. Walter, 253. Willd. Spec. 4. 1124. Michx. Fl. 2. 257. Persoon, 1. 298. Ait. f. Hort. Kew. 5. 482. Pursh, 191. Roem. & Schult.

Syst. 6. 212. Lodd. Bot. Cab. t. **405**. Barton, Comp. Fl. Phil. 1. 136. Elliott, 2. 602. Bigel. Fl. Bost. 2 ed. 376. Torrey, Fl. U. S. 291; Fl. N. Y. 1. 287. Spreng. Syst. 1. 867. DC. Prodr. 4. 252. Hook. Fl. Bor.-Am. 1. 273. Don, Mill. 3. 385. Beck, Bot. 152. Darling. Fl. Cestr. 182. Torr. & Gray, Fl. 1. 648. Eat. & Wr. 339. Gray, Manual, 1 ed. 167. Chapman, 167. Seem. Journ. Bot. 6. 54.

A. triphylla. Poir. Suppl. 1. 418.

Panax pusilla. Sims, Bot. Mag. t. **1334**. Elliott, 2. 602.

Panax lanceolatum. Raf. New Flora, 4. 57.

Ginseng trifolium. Wood, Bot. & Fl. 142.

FATSIA horrida. Benth. & Hook. Gen. Pl. 1. 939. Brew. & Wats. Bot. Calif. 1. 273.

Panax horridum. Smith, Rees Cyc. DC. Prodr. 4. 252. Bongard, Veg. Sitch. 143. Hook. Fl. Bor.-Am. 1. 273, t. **98**. Don, Mill. 3. 385, f. **68**. Torr. & Gray, Fl. 1. 648. Dietr. 2. 924. Eat. & Wr. 339. Ledeb. Fl. Ross. 2. 375. Rich. Arct. Exped. 429. Rothr. Fl. Alask. 447.

Aralia crinacea. Hook. in Edinb. Phil. Journ. 1827, 64. DC. Prodr. 4. 259. Don, Mill. 3. 389. Dietr. 2. 1035. Eat. & Wr. 131.

Echinopanax horridus. Decsne. & Planch. in Rev. Hortic. 1854, 105. Cooper, Pac. R. Rep. 12. 31 & 63. Gray, Proc. Am. Acad. 8. 387. Torrey, Bot. Wilkes, 325.

Oplopanax horridum. Miquel, Ann. Mus. Lugd.-Bat. 1. 16. Hall, Coult. Bot. Gazette, 2. 88.

Horsfieldia horrida. Seem. Journ. Bot. 5. 237.

HEDERA HELIX, Linn. Brew. & Wats. Bot. Calif. 1. 273.

CORNACEÆ.

CORNUS alternifolia. Linn. f. Suppl. 125. Lam. Dict. 2. 116. L'Her. Corn. 19, t. **6** (Roem. & Ust. Mag. Bot. 6. 93). Ehrhart, Beitr. 3. 19. Ait. Hort. Kew. 1. 159. Schmidt, Œstr. Baumz. 2. 15, t. **70**. Willd. Arb. 77; Spec. 1. 664; Enum. 165. Michx. Fl. 1. 93. Persoon, 1. 144. Nouv. Duham. 2. 157, t. **45**. Pursh, 109. Roem. & Schult. Syst. 3. 323, & Mant. 251. Elliott, 1. 210. Guimp., Otto & Hayne, Abbild. t. **43**. Bigel. Fl. Bost. 2 ed. 58. Torrey, Fl. U. S. 180; Fl. N. Y. 1. 288. Spreng. Syst. 1. 451. DC. Prodr. 4. 271. Hook. Fl. Bor.-Am. 1. 275. Don, Mill. 3. 398. Beck, Bot. 154. Darling. Fl. Cestr. 108. Tausch. in Regensb. Flora, 21. 732. Spach, Hist. Veg. 8. 92. Dietr. 1. 503. Torr. & Gray, Fl. 1. 649. Eat. & Wr. 210. Loud. Arb. 2. 1010, f. **760**. C. A. Meyer, Corn. in Mem. Acad. Petersb. 5. 6 & 13 (Ann. Sci. Nat. 3. 4. 59). Walp. Rep. 5. 932. Emerson, Mass. Trees, 409 (2 ed. 2. 463, t.). Parry. Pl. Minn. 613. Curtis, Pl. N. Car. 61. Chapman, 167. Gray, Manual, 201.

C. alterna. Marsh. Arbust. 35.

C. asperifolia Michx. Fl. 1. 93. Nouv. Duham. 2. 156. Poir. Suppl. 2. 356. Pursh, 108. Roem. & Schult. Syst. 3. 322. Elliott, 1. 209. Spreng. Syst. 1. 451. Torr. & Gray, Fl. 1. 651. Eat. & Wr. 210. Parry, Pl. Minn. 613. Chapman, 167. Gray, Manual, 200.

C. sericea, var. *asperifolia.* DC. Prodr. 4. 272. Don, Mill. 3. 399. Loud. Arb. 2. 1013.

C. excelsa, var. *Beyrichiana.* C. A. Meyer, Corn. 27 (Ann. Sci. Nat. 3. 4. 70).

C. Californica. C. A. Meyer, Corn. 30 (Ann. Sci. Nat. 3. 4. 72). Walp. Rep. 5. 935. Benth. Pl. Hartw. 314. Brew. & Wats. Bot. Calif. 1. 275.

C. circinatus? Cham. in Linnæa, 3. 139.

C. alba. Hook. & Arn. Bot. Beechey, 142.

C. pubescens. Torrey, Mex. Bound. 71. Boland. Cat. 14; Proc. Calif. Acad. 3. 80.

C. Canadensis. Linn. Spec. 117. Hill, Veg. Syst. 11, **t. 12, f. 2.** Lam. Dict. 2. 115. L'Her. Corn. 3, **t. 1.** Ait. Hort. Kew. 1. 157. Usteri, Del. 2, **t. 1.** Willd. Spec. 1. 661. Michx. Fl. 1. 91. Nouv. Duham. 2. 151. Persoon, 1. 143. Curtis, Bot. Mag. **t. 880.** Pursh, 107. Bigel. Fl. Bost. 59. Schrank, Pfl. Lab. 9. Roem. & Schult. Syst. 3. 319. Elliott, 1. 207. Lodd. Bot. Cab. **t. 651.** Torrey, Fl. U. S. 177; Fl. N. Y. 1. 291; Bot. Wilkes, 326. Spreng. Syst. 1. 450. Maund, Bot. Gard. 3, **t. 136.** DC. Prodr. 4. 274. Hook. Fl. Bor.-Am. 1. 277. C. A. Meyer, Pl. Lab. 66. Bongard, Veg. Sitch. 144. Don, Mill. 3. 400. Beck, Bot. 153. Audubon, Birds, **t. 164.** Spach, Hist. Veg. 8. 105. Dietr. 1. 504. Torr. & Gray, Fl. 1. 652. Ledeb. Fl. Ross. 2. 378. Emerson, Mass. Trees, 415 (2 ed. 2. 469). Rich. Arct. Exped. 429. Seem. Bot. Herald, 52. Tuckerman, Josselyn's Rar. 109, **f.** Newberry, Pac. R. Rep. 6. 75. Cooper, same, 12. 63. Hook. f. Arct. Pl. 293. Gray, Proc. Acad. Philad. 1863, 63. Rothr. Fl. Alask. 447. Pl. Bourgeau, 257. Gray, Manual, 200. Boland. Cat. 14. Coulter, Hayd. Rep. 1872, 768. Porter, Fl. Col. 53. Brew. & Wats. Bot. Calif. 1. 274.

C. herbacea, var. *Canadensis.* Pall. Fl. Ross. 1. 52.

C. Suecica. Gray, Proc. Am. Acad. 8. 387.

C. circinata. L'Her. Corn. 7, **t. 3** (Roem. & Ust. Mag. Bot. 6. 88). Usteri, Del. 2, **t. 2.** Schmidt, Œstr. Baumz. 2. 15, **t. 69.** Willd. Spec. 1. 663; Enum. 165. Nouv. Duham. 2. 156. Persoon, 1. 143. Ait. f. Hort. Kew. 1. 262. Poir. Suppl. 2. 354. Pursh, 108. Bigel. Fl. Bost. 59. Roem. & Schult. Syst. 3. 321 & Mant. 250. Guimp., Otto & Hayne, Abbild. **t. 86.** Torrey, Fl. U. S. 179; Ann. Lyc. N. Y. 2. 208; Fl. N. Y. 1. 289; Frem. Rep. 90. Spreng. Syst. 1. 451. Beck, Am. Journ. Sci. 1. 10. 264. DC. Prodr. 4. 272. Hook. Fl. Bor.-Am. 1. 276. Don, Mill. 3. 399. Beck, Bot. 153. Spach, Hist. Veg. 8. 95. Dietr. 1. 504. Torr. & Gray, Fl. 1. 650. Eat. & Wr. 210. Loud. Arb. 2. 1014, **f. 767.** C. A. Meyer, Corn. 10 & 29 (Ann. Sci. Nat. 3. 4. 71). Walp. Rep. 5. 935. Emerson, Mass. Trees, 410 (2 ed. 2. 464, **t.**). Rich. Arct. Exped. 429. Parry, Pl. Minn. 613. Pl. Bourgeau, 257. Gray, Manual, 200.

C. rugosa. Lam. Dict. 2. 115.

C. tomentulosa. Michx. Fl. 1. 91.

C. Drummondii. C. A. Meyer, Corn. 20 (Ann. Sci. Nat. 3. 4. 64). Walp. Rep. 5. 933.

C. alba. Hook. Comp. Bot. Mag. 1. 485.

C. stricta. Gray, Hall's Pl. Texas, 11.

C. florida. Linn. Spec. 117. Marsh. Arbust. 35. Lam. Dict. 2. 114. Wangenh. Beitr. 1. 17, **t. 41.** Walter, 88. L'Her. Corn. 4. Ait. Hort. Kew. 1. 157. Schmidt, Œstr. Baumz. 2. 6, **t. 52.** Willd. Spec. 1. 661; Enum. 164. Curtis, Bot. Mag. **t. 526.** Michx. Fl. 1. 91. Persoon, 1. 143. Nouv. Duham. 2. 153. Michx. f. Arb. Amer. 3. 138, **t. 3** (Sylva, 2. 114, **t. 48**). Pursh, 108. Bigel. Fl. Bost. 57; Med. Bot. 2. 69, **t. 73.** Barton, Veg. Mat. Med. 1, **t. 3.** Roem. & Schult. Syst. 3. 319. Guimp., Otto & Hayne, Abbild. **t. 19.** Elliott, 1. 207. Torrey, Fl. U. S. 178; Ann. Lyc. N. Y. 2. 208; Fl. N. Y. 1. 290; Nicol. Rep. 151; Emory's Rep. 408. Spreng. Syst. 1. 451. Beck, Am. Journ. Sci. 1. 10. 264; Bot. 153. Audubon, Birds, **t. 8, 73 & 122.** Raf. Med. Bot. 1. 131, **f. 28.** DC. Prodr. 4. 273. Hook. Fl. Bor.-Am. 1. 277, in part; Comp. Bot. Mag. 1. 48. Don, Mill. 3. 400. Darling. Fl. Cestr. 106. Lindl. Fl. Med. 81. Dietr. 1. 504. Torr. & Gray, Fl. 1. 652. Eat. &

Wr. 209. Loud. Arb. 2. 1017, f. **769**. Emerson, Mass. Trees, 413 (2 ed. 2. 467, t.). Rich. Arct. Exped. 429. Engelm. Pl. Upp. Miss. 194. Curtis, Bot. N. Car. 60. Lesqx. Fl. Ark. 364. Chapman, 168. Blackie, Canad. Nat. 6. 1. L'Hortic. Fr. 1863, t. **14**. Gray, Manual, 200; Hall's Pl. Texas, 11.

Benthamidia florida. Spach, Hist. Veg. 8. 107.

C. glabrata. Benth. Pl. Hartw. 314; Bot. Sulph. 18. Walp. Rep. 5. 933. C. A. Meyer, Corn. 20 (Ann. Sci. Nat. 3. 4. 64). Brew. & Wats. Bot. Calif. 1. 275.

C. Nuttallii. Audubon, Birds, t. **467**. Torr. & Gray, Fl. 1. 652. Walp. Rep. 2. 435. Benth. Pl. Hartw. 312. Nutt. Sylva, 3. 51, t. **97**. Durand, Pl. Pratten. 89. Torrey, Pac. R. Rep. 4. 94; Mex. Bound. 71; Bot. Wilkes, 326. Newberry, Pac. R. Rep. 6. 24 & 75. Cooper, same, 12. 29 & 63. Boland. Cat. 14. Gray, Proc. Am. Acad. 8. 387. Brew. & Wats. Bot. Calif. 1. 274. Hall, Coult. Bot. Gazette, 2. 88.

C. florida. Hook. Fl. Bor.-Am. 1. 277, in part.

C. paniculata. L'Her. Corn. 9, t. **5** (Roem. & Ust. Mag. Bot. 6. 91). Ait. Hort. Kew. 1. 159. Schmidt, Œstr. Baumz. 2. 13, t. **68**. Willd. Spec. 1. 664; Enum. 165. Persoon, 1. 144. Nouv. Duham. 2. 157. Pursh, 109. Bigel. Fl. Bost. 59. Roem. & Schult. Syst. 3. 322 & Mant. 250. Elliott, 1. 209. Torrey, Fl. U. S. 179; Fl. N. Y. 1. 289, t. **41**; Emory's Rep. 141 & 408. Spreng. Syst. 1. 451. DC. Prodr. 4. 271. Hook. Fl. Bor.-Am. 1. 275. Don, Mill. 3. 398. Beck, Bot. 154. Darling. Fl. Cestr. 108. Tausch. in Regensb. Flora, 21. 732. Spach, Hist. Veg. 8. 98. Dietr. 1. 503. Torr. & Gray, Fl. 1. 651. Eat. & Wr. 210. Loud. Arb. 2. 1012, f. **765**. C. A. Meyer, Corn. 8 & 18 (Ann. Sci. Nat. 3. 4. 63). Walp. Rep. 5. 933. Emerson, Mass. Trees, 411 (2 ed. 2. 465, t.). Parry, Pl. Minn. 613. Curtis, Bot. N. Car. 61. Chapman, 167. Gray, Manual, 201; Hall's Pl. Texas, 11.

C. candidissima. Marsh. Arbust. 35. Bischoff in Ind. Sem. h. Heidelb. 1847 (Linnæa, 25. 316).

? *C. racemosa*. Lam. Dict. 2. 116.

C. albida. Ehrh. Beitr. 4. 16. Moench, Meth. 108. Willd. Arb. 76.

C. pubescens. Nutt. Sylva, 3. 54. Torrey, Pac. R. Rep. 4. 95; Bot. Wilkes, 326. Newberry, Pac. R. Rep. 6. 75. Cooper, Am. Naturalist, 3. 407. Brew. & Wats. Bot. Calif. 1. 275. Hall, Coult. Bot. Gazette, 2. 88.

C. alba, var. β. Hook. Fl. Bor.-Am. 1. 276.

C. sericea, var. (?) *occidentalis*. Torr. & Gray, Fl. 1. 652. Gray, Proc. Am. Acad. 8. 387, in part.

C. Drummondii. Cooper, Pac. R. Rep. 12. 30 & 63. Anderson, Cat. Pl. Nev. 121.

C. sericea. Bolander, Cat. 14.

C. sericea. Linn. Mant. 2. 199. Murray, Syst. 13 ed. 134. Medicus, Bot. Beobacht. 1782, 309. Lam. Dict. 2. 117. L'Her. Corn. 5, t. **2** (Roem. & Ust. Mag. Bot. 6. 88). Ait. Hort. Kew. 1. 158. Moench, Meth. 108. Schmidt, Œstr. Baumz. 2. 9, t. **64**. Meerburgh, Pl. Sel. t. **1**. Willd. Arb. 75; Spec. 1. 663; Enum. 165. Persoon, 1. 143. Nouv. Duham. 2. 155. Pursh, 108. Barton, Mat. Med. 1, t. **9**. Roem. & Schult. Syst. 3. 320 & Mant. 250. Elliott, 1. 208. Guimp., Otto & Hayne, Abbild. t. **85**. Torrey, Fl. U. S. 178; Fl. N. Y. 1. 290. Spreng. Syst. 1. 451. Beck, Am. Journ. Sci. 1. 10. 264; Bot. 153. DC. Prodr. 4. 272, excl. var. γ. Hook. Fl. Bor.-Am. 1. 276; Lond. Journ. Bot. 6. 237? Don, Mill. 3. 399. Lindl. Fl. Med. 81. Tausch. in Regensb. Flora, 21. 732. Darling. Fl. Cestr. 107. Spach, Hist. Veg. 8. 99. Dietr. 1. 504. Torr. & Gray, Fl. 1. 651, excl. var. Eat. & Wr. 209. Nees, Pl. Neuwied, 10. Loud. Arb. 2. 1013, f. **766**. C. A. Meyer, Corn. 23 (Ann. Sci. Nat. 3. 4. 67). Walp. Rep. 5. 934. Emerson, Mass. Trees, 411 (2 ed. 2. 466, t.).

Parry, Pl. Minn. 613. Rich. Arct. Exped. 420. Engelm. Pl. Upp. Miss. 194. Gray, Pac. R. Rep. 12. 44; Manual, 200. Curtis, Bot. N. Car. 60. Lesqx. Fl. Ark. 364. Chapman, 167.

C. Amomum. DuRoi, Obs. Bot. 7; Harbk. 1. 165. Bischoff, Ind. Sem. h. Heidelb. 1847 (Linnæa, 25. 317).

? *C. cærulea.* Lam. Dict. 2. 116.

? *C. rubiginosa.* Ehrhart, Beitr. 4. 15.

? *C. alba.* Walter, 88. Hook. Comp. Bot. Mag. 1. 48.

C. cyanocarpus. Moench, Meth. 108.

C. lanuginosa. Michx. Fl. 1. 92. Poir. Suppl. 2. 355.

? *C. polygama.* Raf. Fl. Lud. 78. DC. Prodr. 4. 274. Don, Mill. 3. 401. Dietr. 1. 505.

C. obliqua. Raf. Ann. Nat. 13.

C. sessilis. Torrey in Durand, Pl. Pratten. 89; Pac. R. Rep. 4. 94, t. 7. Brew. & Wats. Bot. Calif. 1. 274.

C. stolonifera. Michx. Fl. 1. 92. Persoon, 1. 143. Nouv. Duham. 2. 159. Poir. Suppl. 2. 355. Torr. & Gray, Fl. 1. 650. Torrey, Fl. N. Y. 1. 289; Nicol. Rep. 151; Frem. Rep. 90; Emory's Rep. 408. Emerson, Mass. Trees, 410 (2 ed. 2. 465). Gray, Pl. Fendl. 57; Pac. R. Rep. 12. 44; Manual, 200. Nutt. Sylva, 3. 55. Rich. Arct. Exped. 429. Seem. Bot. Herald, 52. Engelm. Pl. Upp. Miss. 194. Newberry, Pac. R. Rep. 6. 75. Hook. f. Arct. Pl. 293. Rothr. Fl. Alask. 447. Gard. Chronicle, 2. 4. 678, f. 138. Brew. & Wats. Bot. Calif. 1. 275.

C. alba. Lam. Dict. 2. 115, in part; not Linn. Wangenh. Amer. 91. L'Her. Corn. 6, in part. Willd. Spec. 1. 662, in part. Pursh, 109. Bigel. Fl. Bost. 58. Nutt. Genera, 1. 98; Sylva, 3. 55. Roem. & Schult. 3. 321, in part. Barton, Comp. Fl. Phil. 1. 87. Rich. Frankl. Journ. Appx. 5. James, Long's Exped. 2. 326. Torrey, Fl. U. S. 179; Ann. Lyc. N. Y. 2. 208. DC. Prodr. 4. 272, in part. Hook. Fl. Bor.-Am. 1. 276, excl. var. Beck, Bot. 154. Eat. & Wr. 210. Loud. Arb. 2. 1011, in part. C. A. Meyer, Corn. 7 & 15 (Ann. Sci. Nat. 3. 4. 60). Walp. Rep. 5. 932.

C. sanguinea. Marsh. Arbust. 30? Pursh, 109. Elliott, 1. 208. Torrey, Fl. U. S. 179. Hook. Fl. Bor.-Am. 1. 276. Beck, Bot. 154. Eat. & Wr. 209.

C. Purshii. Don, Mill. 3. 399. Loud. Arb. 2. 1011.

C. pubescens. Cooper, Pac. R. Rep. 12. 31 & 63. Watson, King's Rep. 5. 131; Pl. Wheeler, 10. Porter, Hayd. Rep. 1871, 484; Fl. Col. 53. Coulter, Hayd. Rep. 1872, 768. Rothr. Pl. Wheeler, 40.

C. sericea, var. *occidentalis.* Gray, Proc. Am. Acad. 8. 387, in part.

C. stricta. Lam. Dict. 2. 116. L'Her. Corn. 8, t. 4 (Roem. & Ust. Mag. Bot. 6. 90). Ait. Hort. Kew. 1. 159. Schmidt, Œstr. Baumz. 2. 12, t. 67. Willd. Arb. 77; Spec. 1. 663; Enum. 165. Persoon, 1. 144. Nouv. Duham. 2. 157. Pursh, 109. Roem. & Schult. Syst. 3. 322 & Mant. 250. Elliott, 1. 209. Torrey, Fl. U. S. 180. Spreng. Syst. 1. 451. DC. Prodr. 4. 272 (as *C. striata*). Hook. Fl. Bor.-Am. 1. 275. Don, Mill. 3. 399. Beck, Bot. 154. Spach, Hist. Veg. 8. 96. Dietr. 1. 504. Torr. & Gray, Fl. 1. 651. Eat. & Wr. 210. Loud. Arb. 2. 1012, f. 763, 764. C. A. Meyer, Corn. 9 & 19 (Ann. Sci. Nat. 3. 4. 64). Walp. Rep. 5. 933. Gray, Pl. Fendl. 57; Manual, 200. Curtis, Bot. N. Car. 61. Lesqx. Fl. Ark. 364. Chapman, 167.

? *C. sanguinea.* Walter, 88.

C. cyanocarpus. Gmelin, Syst. 1. 257. Ehret. Pl. Sel. Suppl. t. 101.

C. cærulea. Meerb. Icon. Pict. t. 3.

C. fastigiata. Michx. Fl. 1. 92. Persoon, 1. 144. Nouv. Duham. 2. 156. Poir. Suppl. 2. 356.

C. Suecica. Linn. Spec. 118. See syn. in Willd. Spec. 1. 660; Roem. & Schult. Syst. 3. 318; DC. Prodr. 4. 274; Ledeb. Fl. Ross. 2. 377; Pritzel, Index Icon. Bot. 1. 306.—L'Her. Corn. 2, **t. 2.** Cham. & Schlecht. in Linnæa, 3. 138. Audubon, Birds, **t. 193.** Meyer, Pl. Lab. 66. Hook. Fl. Bor.-Am. 1. 277. Hook. & Arn. Bot. Beechey, 125. Torr. & Gray, Fl. 1. 653. Eat. & Wr. 209. Seem. Bot. Herald, 32. Rich. Arct. Exped. 429. Lange, Fl. Groenl. 127. Hook. f. Arct. Pl. 293. Gray, Proc. Acad. Philad. 1863, 63. Rothr. Fl. Alask. 447.

C. Torreyi. Watson, Proc. Am. Acad. 11. 145. Brew. & Wats. Bot. Calif. 1. 275.

C. Unalaskensis. Ledeb. Fl. Ross. 2. 378. Rothr. Fl. Alask. 447.

C. Canadensis. Cham. & Schlecht. in Linnæa, 3. 139.

GARRYA buxifolia. Gray, Proc. Am. Acad. 7. 349. Bolander, Cat. 27. Brew. & Wats. Bot. Calif. 1. 276.

G. elliptica. Dougl.; Lindl. Bot. Reg. 20, **t. 1686** (Ann. Sci. Nat. 2. 2. 157; Lit.-Ber. zu Linnæa, 1835, 55); Journ. Hort. Soc. 5. 137 (Paxt. Fl. Gard. 1. 44); Veg. Kingd. 295, **f. 293.** Hook. Fl. Bor.-Am. 2. 143. Benth. Pl. Hartw. 335. Torrey, Mex. Bound. 205. Boland. in Proc. Calif. Acad. 3. 82; Cat. 27. Maout & Decsne. Trait. Bot. 256, **figs.** Watson, King's Rep. 5. 132. Gordon, Garden, 4. 104, **fig.** Brew. & Wats. Bot. Calif. 1. 276.

G. flavescens. Watson, Am. Naturalist, 7. 301; Pl. Wheeler, 9. Brew. & Wats. Bot. Calif. 1. 276.

G. elliptica. Torrey, Pac. R. Rep. 4. 136.

G. ——? Watson, King's Rep. 5. 421.

Var. **Palmeri.** Watson, Bot. Calif. 1. 276.

G. Fremonti. Torrey, Pac. R. Rep. 4. 136. Gray, Proc. Am. Acad. 7. 349. Boland. Cat. 27. Brew. & Wats. Bot. Calif. 1. 276.

G. Lindheimeri. Torrey, Pac. R. Rep. 4. 136; Mex. Bound. 205.

G. Veatchii. Kellogg, Proc. Calif. Acad. 5. 40. (Cerros Islands.)

G. Wrightii. Torrey, Pac. R. Rep. 4. 136; Mex. Bound. 205.

NYSSA capitata. Walter, 253. Poir. in Lam. Dict. 4. 508; Suppl. 5. 740. Michx. f. Arb. Amer. 2. 257, **t. 20** (Sylva, **t. 113**). Ait. f. Hort. Kew. 5. 480. Elliott, 2. 685. Hook. Comp. Bot. Mag. 2. 62. Eat. & Wr. 329. Spach, Hist. Veg. 10. 464. Chapman, 168. Wood, Cl.-Book, 392; Bot. & Fl. 143.

N. Ogeche. Marsh. Arbust. 97.

N. coccinea. Bartram, Trav. 17.

N. tomentosa. Poir. in Lam. Dict. 4. 508.

N. canadicans. Michx. Fl. 2. 259. Persoon, 2. 614. Willd. Spec. 4. 1113. Pursh, 177. Poir. Suppl. 4. 116. Nutt. Genera, 2. 236; Fl. Ark. 167. Roem. & Schult. Syst. 5. 577. Spreng. Syst. 1. 832. Dietr. 1. 879. Loud. Arb. 3. 1318, **f. 1199.**

N. montana. Gaertn. Fruct. 3. 201, **t. 216** (fruit).

N. Caroliniana. Poir. in Lam. Dict. 4. 507; Lam. Ill. 3. 442, **t. 851, f. 1.**

N. biflora. Walter, 253. Poir in Lam. Dict. 4. 508.

N. multiflora. Elliott, 2. 684.

N. aquatica. Curtis, Bot. N. Car. 62. Chapman, 168.

N. multiflora. Wangenh. Amer. 46, **t. 16, f. 39**? Beck, Bot. 307. Darling. Fl. Cestr. 164. Eat. & Wr. 329. Spach, Hist. Veg. 10. 463. Torrey, Fl. N. Y. 2. 161, **t. 95.** Emerson, Mass. Trees, 312, **t. 17** (2 ed. 2. 353, **t.**). Schnitzlein, Icon. **t. 108****, **f. 1, 2.** Chapman, 168. Manual, 201.

N. aquatica. Linn. Spec. 1058, in part. St. Hil. Fam. Nat. 2. 152. Persoon, 2. 614. Michx. f. Arb. Amer. 2. 165, **t. 22** (Sylva, **t. 111**). Roem. & Schult. Syst.

5. 576. Barton, Comp. Fl. Phil. 2. 192. Spreng. Syst. 1. 832. Audubon, Birds, **t. 133**. Elliott, 2. 684. Dietr. 1. 878. Eat. & Wr. 329. Spach, Hist. Veg. 10. 464. Darby, Bot. 492.

N. integrifolia. Ait. Hort. Kew. 3. 446. Persoon, 2. 614.

? *N. Canadensis.* Poir. in Lam. Dict. 4. 507.

N. biflora. Michx. Fl. 2. 259. Willd. Spec. 4. 1113; Enum. 1061. Ait. f. Hort. Kew. 5. 479. Pursh, 177. Poir. Suppl. 4. 115. Torrey, Compend. 372. Beck, Bot. 307. Loud. Arb. 3. 1317, **f. 1195, 1196**.

N. villosa. Bigel. Fl. Bost. 380.

Var. **sylvatica.**

N. sylvatica. Marsh. Arbust. 97. Michx. f. Arbr. Amer. 2. 260, **t. 21** (Sylva, **t. 110**). Poir. Suppl. 4. 116. Barton, Comp. Fl. Phil. 2. 193.

? *N. multiflora.* Walter, 253. Darby, Bot. 492. Curtis, Bot. N. Car. 62. Lesqx. Fl. Ark. 364.

N. villosa. Michx. Fl. 2. 258. Willd. Spec. 4. 1112. Ait. f. Hort. Kew. 5. 479. Pursh, 177. Nutt. Genera, 2. 276. Roem. & Schult. Syst. 5. 575. Spreng. Syst. 1. 832. Torrey, Compend. 372. Dietr. 1. 878. Loud. Arb. 3. 1317, **f. 1197, 1198**.

? *N. biflora.* James, Long's Exped. 3. 5 & 164. Torrey, Ann. Lyc. N. Y. 2. 200. Nutt. Fl. Ark. 167.

N. uniflora. Wangenh. Amer. 83, **t. 27, f. 57.** Walter, 253. Elliott, 2. 686. Eat. & Wr. 329. Darby, Bot. 493. Curtis, Bot. N. Car. 62. Chapman, 108. Gray, Manual, 201.

N. aquatica. Linn. Spec. 1058, in part. Marsh. Arbust. 96. Poir. in Lam. Dict. 4. 507.

N. denticulata. Ait. Hort. Kew. 3. 446. Persoon, 2. 615. Gaertn. Fruct. 3. 203, **t. 216**? Willd. Spec. 4. 1114. Pursh, 178. Poir. Suppl. 4. 115. Nutt. Genera, 2. 236. Roem. & Schult. Syst. 5. 577. Spreng. Syst. 1. 832. Dietr. 1. 879.

N. angulosa. Poir. in Lam. Dict. 4. 507; Lam. Ill. 3. 442, **t. 851, f. 2.** Roem. & Schult. Syst. 5. 578.

N. palustris. Salisb. Prodr. 175.

N. tomentosa. Michx. Fl. 2. 259. Persoon, 2. 615. Willd. Spec. 4. 1113. Pursh, 177. Nutt. Genera, 2. 236. Roem. & Schult. Syst. 5. 577. Elliott, 2. 685. Spreng. Syst. 1. 832. Audubon, Birds, **t. 13.** Dietr. 1. 879. Eat. & Wr. 329. Darby, Bot. 493.

N. angulisans. Michx. Fl. 2. 259. Dietr. 1. 879. Spach, Hist. Veg. 10. 465.

N. grandidentata. Michx. f. Arb. Amer. 2. 252, **t. 19** (Sylva, **t. 112**).

ADDITIONS AND CORRECTIONS.

RANUNCULACEÆ.

Page

3. Dele all under **Anemone alpina**.

Under **A. cylindrica** insert: — Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 307.

Under **A. decapetala** insert: — Parry, Am. Naturalist, 9. 267.

Under *A. Caroliniana* insert: — Elliott, 2. 53. Eat. & Wr. 127. W. W. Smith, Journ. Ell. Soc. 1. 21.

4. After **A. Hepatica** insert: — *A. præcox.* Salisb. Prodr. 371.

Under *Hepatica triloba* insert: — Bigel. Fl. Bost. 222. Torrey, Compend. 225. Beck, Bot. 6. Tuckerman, Josselyn's Rarities, 76. W. W. Smith, l. c. 24.

A. Hepatica, var. *obtusa.* Muhl. Cat. 53.

H. triloba, var. *obtusa.* Barton, Comp. Fl. Phil. 2. 23. Darling. Fl. Cestr. 331.

5. Insert **A. occidentalis.** Watson, Proc. Am. Acad. 11. 121. Brew. & Wats. Bot. Calif. 1. 3.

A. alpina. Hook. Fl. Bor.-Am. 1. 5. Torr. & Gray, Fl. 1. 11. Hook. & Arn. Bot. Beechey, 120. Eat. & Wr. 126. Seem. Bot. Herald, 22. Newberry, Pac. R. Rep. 6. 66. Hook. f. Arct. Pl. 283 & 311, in part. Rothr. Fl. Alask. 442.

Pulsatilla alpina. Lawson, Ranunc. Canad. 23.

After *A. minima* insert:

A. nemorosa, var. *quinquefolia.* Torrey, Compend. 222. Beck, Bot. 5. Darling. Fl. Cestr. 332.

6. Under **A. Virginiana** insert: — Hill, Veg. Syst. 25, **t. 44, f. 3.** Bigel. Fl. Bost. 233. Barton, Comp. Fl. Phil. 2. 20. Elliott, 2. 54. Torrey, Compend. 223. Beck, Bot. 6. Darling. Fl. Cestr. 332. Eat. & Wr. 126. W. W. Smith, Journ. Ell. Soc. 1. 22.

Under *Cross-references* insert: — *alpina;* occidentalis.

Under **Aquilegia cærulea** insert: — Brew. & Wats. Bot. Calif. 1. 10. Rev. Hort. Belg. 1876, 221, **t.** (Belg. Hortic. 1877, 170). Garden, 12. 8.

Under **A. Canadensis** insert: — Barton, Elem. Bot. **t. 34, f. 1–5.** Persoon, 2. 85. Bigel. Fl. Bost. 219. Turpin, Dict. Sci. Nat. 2. 111, **t. 115.** Barton f. Comp. Fl. Phil. 2. 12. Torrey, Compend. 218. Beck, Bot. 12. Darling. Fl. Cestr. 321. Eat. & Wr. 130. Garden, 12. 8.

7. Under **A. chrysantha** insert: — Regel, Gartenfl. 1877, **t. 895.**

Under *A. leptoceras*, var. *chrysantha*, insert: — Fl. Serres, 1876, **t. 2108.** Rev. Hort. Belg. 1876, 221, **t.**

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8. Under **Caltha palustris** insert: — Bigel. Fl. Bost. 221. Barton, Comp. Fl. Phil. 2. 22. Torrey, Compend. 224. Beck, Bot. 11. Darling. Fl. Cestr. 336. Eat. & Wr. 165.

9. After **Cimicifuga elata** insert: — *Macrotys fœtida*. Eat. & Wr. 311.

Under *C. fœtida* insert: — Persoon, 2. 85. Gray, Mem. Am. Acad. 6. 379.

Under **Clematis alpina** insert: — See syn. in Maxim. Bull. Acad. Petersb. 22. 224, as *Atragene*.

Under **C. crispa** insert: — W. W. Smith, Journ. Ell. Soc. 1. 16.

10. Insert **C. Fremonti**. Watson, Proc. Am. Acad. 10. 339 (Coult. Bot. Gazette, 2. 123).

11. Insert **C. pauciflora**. Nutt.; Torr. & Gray, Fl. 1. 9. Eat. & Wr. 200. Walp. Rep. 1. 7. Dietr. 3. 345. Brew. & Wats. Bot. Calif. 1. 3.

Under **C. verticillaris** insert: — Torrey, Compend. 222. Beck, Bot. 4. Brew. & Wats. Bot. Calif. 1. 3.

Under **C. Viorna** insert: — St. Hil. Fam. Nat. 1. 485. Torrey, Compend. 222. Beck, Bot. 4. Darling. Fl. Cestr. 335. Eat. & Wr. 199.

Under **C. Virginiana** insert: — Linn. Spec. 2 ed. 766. Bigel. Fl. Bost. 219. Barton, Comp. Fl. Phil. 2. 19. Torrey, Compend. 222. Beck, Bot. 4. Darling. l. c. Eat. & Wr. 199. W. W. Smith, Journ. Ell. Soc. 1. 18 & 41.

13. Insert **Delphinium** CONSOLIDA, Linn. Pursh, 372. Beck, Bot. 13. Torr. & Gray, Fl. 1. 30. Darling. Fl. Cestr. 3 ed. 7. Chapman, 10. Gray, Manual, 46.

Insert **D. flammeum**. Kellogg, Proc. Calif. Acad. 2. 22. (Cerros Islands.)

14. Insert **D. Wislizeni**. Engelm. in Wisliz. Rep. 22. Walp. Ann. 3. 812. (Northern Mexico.)

15. Under **Isopyrum occidentale** insert: — Brew. & Wats. Bot. Calif. 1. 9.

Insert **I. stipitatum**. Gray, Proc. Am. Acad. 12. 54.

Under **Myosurus aristatus** insert: — Parry, Am. Naturalist, 9. 268. Brew. & Wats. Bot. Calif. 1. 5.

Under **M. minimus** insert: — Eat. & Wr. 324. Brew. & Wats. l. c. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 308.

Under **Ranunculus abortivus** insert: — Persoon, 2. 103. Bigel. Fl. Bost. 225. Barton, Comp. Fl. Phil. 2. 24. Torrey, Compend. 226. Beck, Bot. 8. Darling. Fl. Cestr. 328. Eat. & Wr. 386. W. W. Smith, Journ. Ell. Soc. 1. 39.

After **R. abortivus**, var. **micranthus**, insert:

R. filiformis, var. *hispidus*. Schwein. in Long's Exped. 2, Appx. 114.

Under *R. micranthus* insert: — Eat. & Wr. 389 (as *Reseda micranthus*).

16. After **R. alismæfolius** & syn. insert:

Var. **alismellus**. Gray, Proc. Am. Acad. 7. 327 & 8. 372; Am. Journ. Sci. 3. 3. 149. Brew. & Wats. Bot. Calif. 1. 16.

After *R. Flammula* insert: — Barton, Comp. Fl. Phil. 2. 23. Bigel. Fl. Bost. 2 ed. 224. Torrey, Compend. 226. Beck, Bot. 7. Darling. Fl. Cestr. 327.

After **R. Andersoni** insert:

Var. **tenellus**. Watson, King's Rep. 5. 6. Parry, Am. Naturalist, 9. 142 & 267.

17. Under **R. aquatilis** dele Var. **Lobbii** & syn.

Under Var. **tricophyllus** insert: — Brew. & Wats. Bot. Calif. 1. 5.

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18. Insert **R.** CHILENSIS, DC. Hook. & Arn. Bot. Beechey, 134. Brew. & Wats. Bot. Calif. 1. 9.

Under **R. Cymbalaria** insert: — Brew. & Wats. l. c. 7.

Under *R. tridentatus* insert: — Griseb. Pl. Lorentz. 21, making it distinct.

19. Under **R. hebecarpus** insert: — Watson, Proc. Am. Acad. 11. 112. Brew. & Wats. Bot. Calif. 1. 8.

Var. **pusillus**. Brewer, Bot. Calif. 1. 9.

R. hederaceus. Linn. Spec. 2 ed. 781. See syn. in DC. Syst. 1. 233. — Schlecht. Animad. Ranunc. 1. 7. Elliott, 2. 56. Eat. & Wr. 358. W. W. Smith, Journ. Ell. Soc. 1. 30. Torrey, Pac. R. Rep. 4. 62.

R. hydrocharis Lobbii. Hiern in Seem. Journ. Bot. 9. 66, t. **114**.

R. hederaceus, var. *Lobbii*. Brewer, Bot. Calif. 1. 5.

Under **R. hystriculus** insert: — Brew. & Wats. Bot. Calif. 1. 6.

20. Insert **R. Lemmoni**. Gray, Proc. Am. Acad. 10. 68. Brew. & Wats. l. c. 7.

Under **R. macranthus,** MURICATUS & **Nelsoni,** var., insert: — Brew. & Wats. Bot. Calif. 1. 8.

Under *R. oblongifolius* insert: — Eat. & Wr. 218. Smith, l. c. 28.

21. After *R. canus* insert: — *R. Californicus*, var. *canus*. Brewer, Bot. Calif. 1. 8.

Insert **R. oxynotus**. Gray, Proc. Am. Acad. 10. 68. Brew. & Wats. l. c. 7.

22. Under **R. Pennsylvanicus** insert: — Persoon, 2. 104. Barton, Comp. Fl. Phil. 2. 25. Bigel. Fl. Bost. 2 ed. 227. Torrey, Compend. 227. Beck, Bot. 10. Eat. & Wr. 386.

Under **R. pusillus** insert: — Torrey, Compend. 226. Beck, Bot. 8. Darling. Fl. Cestr. 328. Smith, l. c. 28.

Under **R. recurvatus** insert: — Persoon, 2. 105. Bigel. Fl. Bost. 3 ed. 242. Torrey, Compend. 227. Beck, Bot. 10. Darling. Fl. Cestr. 329. Eat. & Wr. 387. Smith, l. c. 31.

Under **R. repens** insert: — Bigel. Fl. Bost. 139. Barton, Comp. Fl. Phil. 2. 24. Torrey, Compend. 228. Beck, Bot. 9. Darling. l. c. Eat. & Wr. 387.

23. Under *R. hispidus* insert: — Persoon, 2. 105. Barton, l. c. Torrey, Compend. 227. Beck, Bot. 10. Eat. & Wr. 387. Smith, l. c. 31.

Under **R. rhomboideus** insert: — Eat. & Wr. 387. Brandegee, Fl. S. W. Col. 233.

Under **R. sceleratus** insert: — Bigel. Fl. Bost. 137. Barton, l. c. Torrey, Compend. 226. Beck, Bot. 8. Darling. l. c. Eat. & Wr. 380. Smith, l. c. 30.

24. Under Var. **Lindheimeri** insert: — Brewer, Bot. Calif. 1. 7.

25. Under **Thalictrum Cornuti** insert: — Persoon, 2. 100. Torrey, l. c. 223. Beck, Bot. 4. Darling. l. c. 334. Eat. & Wr. 449. Smith, l. c. 25.

26. Under **T. Fendleri** dele var. & syn. as indicated below.

Under **T. occidentale** insert: — Brew. & Wats. Bot. Calif. 1. 4.

T. polycarpum. Watson, Proc. Am. Acad. 13. —.

T. Fendleri, var. (?) *polycarpum*. Torrey, Pac. R. Rep. 4. 61.

T. Fendleri. Anderson, Cat. Pl. Nev. 117. Boland. Cat. 3. Brew. & Wats. Bot. Calif. 1. 4, in part.

27. Under **Trautvetteria palmata**, var. **occidentalis**, insert. — Gray, Mem. Am. Acad. 6. 379.

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27. After **Trollius laxus** & syn. insert:
Guissenia verna. Raf. Med. Rep. 5. 352. Desv. in Journ. Bot. 2. 168.

After **Xanthorrhiza apiifolia** & syn. insert:
X. tinctoria. Woodhouse, Med. Rep. 5. 159, **t.**

DILLENIACEÆ.

Insert **Crossosoma Bigelovii.** Watson, l. c. 11. 122. Brew. & Wats. l. c.
C. Californicum. Torrey, Pac. R. Rep. 4. 63, **t. 1,** excl. f. 1, 2.

ANONACEÆ.

31. At bottom insert: — *Anona pendula.* Salisb. Prodr. 380.

32. Under **Anona glabra** insert: — Chapman, Coult. Bot. Gazette, 3. 2.

MENISPERMACEÆ.

Under **Menispermum Canadense** insert: — St. Hil. Fam. Nat. 2. 83. Persoon, 2. 627. Barton, Comp. Fl. Phil. 2. 199. Turpin, Dict. Sci. Nat. 30. 33, **t. 120.** Torrey, Compend. 326. Beck, Bot. 16. Bigel. Fl. Bost. 3 ed. 232. Eat. & Wr. 317. Agardh, Theor. Syst. **t. 20, f. 4.**

BERBERIDACEÆ.

33. Under **Achlys triphylla** insert: — Poir. in Lam. Ill. 3. 641. Raf. New Flora, 1. 51. Eat. & Wr. 113. Brew. & Wats. Bot. Calif. 1. 16.

Under **Berberis Aquifolium** insert: — Eat. & Wr. 156. Hall, Coult. Bot Gaz. 2. 85. Garden, 5. 33.

34. Under **B. nervosa** insert: — Hall, l. c.

35. Under **Caulophyllum thalictroides** insert: — Lam. Ill. 3. 395, **t. 937.**

Under **Diphylleia cymosa** insert: — Persoon, 1. 387. Lam. Ill. 3. 395, **t. 937.** Eat. & Wr. 226.

Under **Jeffersonia diphylla** insert: — Muhl. Cat. 40. Beck, Bot. 18. Eat. & Wr. 287. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 309.

Under **Podophyllum peltatum** insert: — Walter, 153. Barton, Elem. Bot. **t. 18, f. 2.** St. Hil. Fam. Nat. 1. 493. Persoon, 2. 61. Barton f. Comp. Fl. Phil. 2. 9. Turpin, Dict. Sci. Nat. 42 66, **t. 178.** Torrey, Compend. 217. Beck, Bot. 18. Darling. Fl. Cestr. 318. Porter, Coult. Bot. Gaz. 2. 117.

NYMPHÆACEÆ.

36. Under **Brasenia peltata** insert: — Barton, Comp. Fl. Phil. 2. 26. Brew. & Wats. Bot. Calif. 1. 16. Mueli. Fl. Indig. Vict. 1. 12.

Under *Hydropeltis purpurea* insert: — Persoon, 2. 107. Lam. Ill. 3. 645, **t. 967** Bigel. Fl. Bost. 135. Turpin, Dict. Sci. Nat. **t. 81;** Ann. Nat. Hist. 1853, **t. 3** Beck, Bot. 19. Eat. & Wr. 277.

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36. After *Brasenia nymphoides* insert:

Cabomba peltata. Muell. Fragm. Phyt. Austral. 10. 77.

Under **Nelumbium luteum** insert: — Turpin, Dict. Sci. Nat. 34. 356, **t. 180.** Torrey, Compend. 228. Beck, Bot. 19. Eat. & Wr. 327. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 309.

37. Under *Nelumbo lutea* insert: — Batll. in Adansonia, 10. 1, **t. 3.**

Under **Nuphar advena** dele syn. Newberry.

Under **N. polysepalum** insert: — Brew. & Wats. Bot. Calif. 1. 17.

N. advena. Newberry, Pac. R. Rep. 6. 67.

38. Insert **Nymphæa flava.** Leitner; Audubon, Birds, **t. 411.** Mrs. Mary Treat, in Harper's Magazine, 55. 305, **figs.** (as *N. lutea*). Chapman, Coult. Bot. Gaz. 3. 2.

SARRACENIACEÆ.

39. Under **Darlingtonia Californica** insert: — Edwards, Proc. Calif. Acad. 6. 161. Brew. Bot. Calif. 1. 17.

D. rediviva. Torrey, Proc. Am. Assoc. 4. 191.

Under **Sarracenia purpurea** insert: — Bigel. Fl. Bost. 213. Barton, Comp. Fl. Phil. 2. 10. Turpin, Dict. Sci. Nat. 47. 494, **t. 181.** Torrey, Compend. 217. Beck, Bot. 22. Eat. & Wr. 411. Tuckerman, Josselyn's Rar. 86, **fig.**

Sarazina gibbosa. Raf. Autikon Bot. 33.

PAPAVERACEÆ.

40. Under **Arctomecon Californicum** insert: — Parry, Am. Naturalist, 9. 139 & 268. Brew. & Wats. Bot. Calif. 1. 21. Gray, Proc. Am. Acad. 12. 52, **t. 2** (Garden, 11. 215, **fig.**).

41. Under **Argemone hispida** & **Mexicana** insert: — Brew. & Wats. l. c.

Insert **CANBYA candida.** Parry; Gray, Proc. Am. Acad. 12. 51, **t. 1** (Garden, 11. 215, **fig.**).

Insert **GLAUCIUM** LUTEUM, Scop. Eat. & Wr. 255. Gray, Manual, 60. Wood, Bot. & Fl. 31.

G. flavum. Gray, Manual, 1 ed. 27.

Papaver ARGEMONE, Linn. Gray, Manual, 59.

P. DUBIUM, Linn. Torr. & Gray, Fl. 1. 60. Eat. & Wr. 342. Darling. Fl. Cestr. 2 ed. 317. Chapman, 22. Gray, Manual, 59.

42. Under **Platystemon Californicus** insert: — Parry, Am. Naturalist, 9. 268. Brew. & Wats. Bot. Calif. 1. 19.

Under **Platystigma Californicum, lineare** & **Oreganum** insert: — Brew. & Wats. Bot. Calif. 1. 20.

Under **Romneya Coulteri** insert: — Masters, Gard. Chronicle, 2. 3. 280, **f. 55.** Brew. & Wats. Bot. Calif. 1. 20. The Garden, 11. 374. Fl. Mag. **t. 352.**

Under **Sanguinaria Canadensis** insert: — Walter, 153. Barton, Elem. Bot. **t. 40.** Sp. Gill. Fam. Nat. 1. 495. Bigel. Fl. Bost. 131. Barton f. Veg. Mat. Med. 1. **t. 2**; Comp. Fl. Phil. 2. 8. Torrey, Compend. 217. Beck, Bot. 21. Darling. Fl. Cestr. 317. Eat. & Wr. 410.

FUMARIACEÆ.

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44. Under **Corydalis aurea**, var., insert: — Brew. & Wats. Bot. Calif. 1. 24.

Under **C. Caseana** insert: — Brandegee, Fl. S. W. Col. 233. Brew. & Wats. l. c.

45. Under **C. Scouleri** insert: — Brew. & Wats. Bot. Calif. 1. 24.

46. Under **Dicentra formosa** insert: — Brew. & Wats. Bot. Calif. 1. 21.

CRUCIFERÆ.

47. Under **Alyssum** CALYCINUM insert: — Brew. & Wats. Bot. Calif. 1. 27.

Insert **A.** MARITIMUM, Linn. Brew. & Wats. l. c.

Under **Arabis arcuata, blepharophylla** & **canescens** insert: — Brew. & Wats. Bot. Calif. 1. 32 & 33.

Insert **A. Breweri.** Watson, Proc. Am. Acad. 11. 123. Brew. & Wats. l. c.

48. Under **A. Drummondii** dele Var. **alpina** & syn.

Under **A. hirsuta** insert: — Brew. & Wats. Bot. Calif. 1. 32.

Under **A. Holbœllii** insert: — Brew. & Wats. l. c. 33. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 314.

After *A. heteromalla* insert: — *A. lilacina.* Schrad. in Ind. Sem. Goett. 1882. l. Regel, Descr. Pl. Nov. fasc. 5. 51.

49. After *Turritis Grahami* insert: — *A. Turczaninowii.* Ledeb. Fl. Ross. 1. 125. fide Regel, l. c.

Under **A. longirostris** insert: — Parry, Am. Naturalist, 9. 268. Brew. & Wats. Bot. Calif. 1. 31.

Under **A. lyrata** insert: — Crantz, Class. Crucif. 125. Poir. Suppl. 1. 414. Barton, Comp. Fl. Phil. 2. 56. Torrey, Compend. 250. Beck, Bot. 30.

Subularia alpina. Eat. & Wr. 445.

After *Cardamine Virginica* insert: — *Arabis* —— ? Lam. Dict. 2. 185.

Insert **A. Lyalli.** Watson, l. c. 11. 122. Brew. & Wats. Bot. Calif. 1. 32.

A. microphylla. Nutt.; Torr. & Gray, Fl. 1. 82. Walp. Rep. 1. 133. Eat. & Wr. 131. Dietr. Syn. 3. 693.

A. Drummondii. Watson, King's Rep. 5. 17.

A. Drummondii, var. *alpina.* Watson, l. c. Porter, Hayd. Rep. 1871. 459. Fl. Col. 6. Coulter, Hayd. Rep. 760.

After *Sisymbrium arabidoides* insert: — *Sisymbrium lyratum.* Eat. & Wr. 450.

Under **A. perfoliata** insert: — Brew. & Wats. Bot. Calif. 1. 33.

Under *Turritis glabra* insert: — Muell. Pl. Indig. Vict. 1. 33.

50. Under **A. petræa** insert: — Macoun & Gibson, Trans. Edinb. 12. 313.

Under **A. platysperma** & **spathulata** insert: — Brew. & Wats. l. c. 32.

Insert **A. repanda.** Watson, Proc. Am. Acad. 11. 122. Brew. & Wats. l. c.

Under **Barbarea vulgaris** insert: — Barton, Comp. Fl. Phil. 2. 54. Torrey, Compend. 251. Beck, Bot. 29. Eat. & Wr. 154. Muell. Pl. Indig. Vict. 1. 32. Brew. & Wats. Bot. Calif. 1. 40.

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51. Under **Biscutella Californica** insert: — Brew. & Wats. Bot. Calif. 1. 48.

Under **B. Wislizeni** insert: — Parry, Am. Naturalist, 9. 268. Brandegee, Fl. S. W. Col. 233. Brew. & Wats. l. c.

Under **Brassica** CAMPESTRIS, NIGRA & SINAPISTRUM insert: — Brew. & Wats. Bot. Calif. 1. 39.

52. After **Cakile Americana** insert:

Rapistrum Cakile. Crantz, Class. Crucif. 106, in part.

Bunias Americana. Raf. Med. Bot. 2. 202.

Under **Capsella divaricata** insert: — Parry, l. c. Brew. & Wats. l. c. 44.

Under **Cardamine angulata** insert: — Eat. & Wr. 169. Watson, Proc. Am. Acad. 10. 340.

Under **C. bellidifolia** insert: — Bigel. Fl. Bost. 2 ed. 252. Eat. & Wr. 169. Brew. & Wats. Bot. Calif. 1. 31.

Insert **C. Gambelii.** Watson, l. c. 11. 147. Brew. & Wats. l. c. 30.

Under **C. hirsuta** & var., **C. oligosperma** & **paucisecta** insert: — Brew. & Wats. l. c.

After **C. paucisecta** insert:

Dentaria Californica & *integrifolia.* Nutt.; Torr. & Gray, Fl. 1. 88. Walp. Rep. 1. 138. Dietr. 3. 700. Eat. & Wr. 222.

54. Under **Caulanthus Coulteri** & **crassicaulis** insert: — Brew. & Wats. Bot. Calif. 1. 36.

Under **Cheiranthus asper** & **Menziesii** insert: — Brew. & Wats. l. c. 35.

57. Under **Dentaria macrocarpa** insert: — Eat. & Wr. 222. Brew. & Wats. Bot. Calif. 1. 30.

59. Under **Draba aurea** insert: — Eat. & Wr. 228. Brew. & Wats. l. c. 28.

Under Var. **stylosa** insert: — Brandegee, Fl. S. W. Col. 233.

Under **D. Caroliniana** insert: — Torrey, Compend. 247. Eat. & Wr. 227. Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 315.

Under **D. Douglasii** & **eurycarpa** insert: — Brew. & Wats. l. c. 29.

2. Insert **D. stenoloba.** Ledeb. Fl. Ross. 1. 154. Walp. Rep. 1. 150. Dietr. 3. 651. Rothr. Fl. Alask. 443. Brew. & Wats. Bot. Calif. 1. 28.

D. hirta, var. *siliquosa.* Cham. & Schlecht. in Linnæa, 1. 24.

D. nemorosa, var. *lutea.* Watson, King's Rep. 5. 22.

D. nemorosa, var. *crassifolia.* Rothr. Pl. Wheeler, 34.

Under *Cross-references.* — Dele "*crassifolia*: androsacea" and "*stenoloba*: hirta" — insert "*nemorosa*; montana:" — read "*Johannis*: crassifolia, stellata" and "*oligosperma*: alpina."

Under **Erysimum asperum** insert: — Brew. & Wats. Bot. Calif. 1. 39.

After *E. elatum* insert:

Var. **pumilum.** Watson, King's Rep. 5. 24, excl. syn. Brew. & Wats. l. c.

Under **Lepidium alyssoides** insert: — Brew. & Wats. Bot. Calif. 1. 47.

Under **L. dictyotum** insert: — Brew. & Wats. l. c. 45.

Var. (?) **acutidens.** Gray, Proc. Am. Acad. 12. 54.

Under **L. flavum** insert: — Brew. & Wats. l. c. 46.

Under **L. Fremonti** insert: — Parry, Am. Naturalist, 9. 268. Brew. & Wats. l. c. 47.

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64. After **L. integrifolium** insert:

Var. **heterophyllum.** Watson, Am. Naturalist, 9. 268.

L. montanum, var. (?) *alpinum.* Watson, King's Rep. 5. 29.

Under **L. intermedium** insert: — Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 316. Brew. & Wats. l. c. 47.

L. Menziesii, var. *β.* Hook. Fl. Bor.-Am. 1. 68.

L. Menziesii. Gray, Proc. Am. Acad. 8. 377.

Under **L. montanum** insert: — Parry, l. c. 268. Brew. & Wats. l. c. 47.

Insert **Lepidium Grœnlandicum.** Hornem.; Lange, Pl. Groenl. 130.

L. alpinum. Muell. Fl. Dan. 4. 5, t. **569.**

65. After **L. nitidum** insert: — *L. Menziesii.* Torr. & Gray, Fl. 1. 115, in part.

After *Dilepium diffusum* insert:

? *Discovium Ohioense.* Raf. Journ. Phys. 1819, 96; Autikon Bot. 17. DC. Syst. 2. 700; Prodr. 1. 236. Don, Mill. 1. 181. Torr. & Gray, Fl. 1. 120. Dietr. 3. 643.

Semetum ramosum. Raf. Autikon Bot. 17.

? *L. Menziesii.* Torrey, Bot. Wilkes, 233.

Under **L. Wrightii** insert: — Parry, l. c. Brew. & Wats. Bot. Calif. 1. 46.

Under **Lyrocarpa Coulteri** insert: — Brew. & Wats. Bot. Calif. 1. 44.

Insert **L. Palmeri.** Watson, Proc. Am. Acad. 11. 123. Brew. & Wats. l. c.

Under **Nasturtium** ARMORACIA insert: — Brew. & Wats. Bot. Calif. 1. 43.

Under **N. curvisiliqua** insert: — Brew. & Wats. l. c. 42.

66. Under **N.** OFFICINALE insert: — Torrey, Compend. 251. Eat. & Wr. 326. Brew. & Wats. l. c. 43.

Erysimum Nasturtium. Eat. Man. 7 ed.

Under **N. palustre** & var. **hispidum** insert: — Brew. & Wats. l. c. 42.

67. Under **N. sinuatum** insert: — Brew. & Wats. l. c. 43.

Insert **N. trachycarpum.** Gray in Brandegee, Fl. S. W. Col. 233; Proc. Am. Acad. 12. 54.

Under **Parrya nudicaulis** insert: — Regel, Descr. Pl. Nov. fasc. 5. 18, with syn., including both *P. arctica* & *macrocarpa.*

68. Under **Physaria didymocarpa** insert: — Brew. & Wats. l. c. 47.

Under *Vesicaria didymocarpa* insert: — Benth. & Hook. Gen. Pl. 1. 73.

Under **P. Newberryi** insert: — Parry, Am. Naturalist, 9. 268.

Under **Platyspermum scapigerum** insert: — Brew. & Wats. Bot. Calif. 1. 27

Under **Raphanus** RAPHANISTRUM & SATIVUS insert: — Brew. & Wats. l. c. 49.

Under **Senebiera** DIDYMA insert: — Brew. & Wats. l. c. 48.

Under **Sisymbrium canescens** insert: — Griseb. Pl. Lorentz. 23. Watson, Proc. Am. Acad. 11. 113. Brew. & Wats. Bot. Calif. 1. 40.

69. After *S. brachycarpon* insert:

S. canescens, var. *appendiculatum.* Griseb. Pl. Lorentz. 23.

70. Under **S. reflexum** insert: — Watson, Proc. Am. Acad. 11. 113. Brew. & Wats. l. c. 41.

After *S. deflexum* insert:

Erysimum retrofractum. Torrey, Bot. Wilkes, 230. Gray, same.

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71. Insert **Smelowskia** (?) **Fremonti.** Watson, Proc. Am. Acad. 11. 123. Brew. & Wats. Bot. Calif. 1. 42.

Under **Stanleya pinnatifida** & **viridiflora** insert: — Brew. & Wats. l. c. 38.

After *Cleome pinnata* insert:
Podolobus pinnatifidus. Raf. 1817; Sylv. Tellur. 113.

Under **Streptanthus Breweri, flavescens, glandulosus, heterophyllus** & **hispidus** insert: — Brew. & Wats. Bot. Calif. 1. 35.

Under **S. cordatus** insert: — Parry, Am. Naturalist, 9. 268. Brandegee, Fl. S. W. Col. 233. Brew. & Wats. l. c. 34.

72. After *S. obtusifolius* insert: — *S. ovalifolius.* Eat. & Wr. 444.

Under **S. polygaloides, repandus** & **tortuosus** insert: — Brew. & Wats. l. c. 34.

Under **Subularia aquatica** insert: — Torrey, Compend. 248. Eat. & Wr. 446. Brew. & Wats. Bot. Calif. 1. 43.

Insert **Thelypodium ambiguum.** Watson, Proc. Am. Acad. 13. —
Streptanthus sagittatus. Gray, Ives' Rep. 6.
T. sagittatum. Watson, King's Rep. 5. 25, in part.

T. Cooperi. Watson, Proc. Am. Acad. 12. 246.
T. —— ? Brew. & Wats. Bot. Calif. 1. 38.

Under **T. brachycarpum, flavescens** & **laciniatum** insert: — Brew. & Wats. Bot. Calif. 1. 37.

Under **T. integrifolium** insert: — Brandegee, Fl. S. W. Col. 233 (var. ?). Brew. & Wats. l. c.

73. Under **T. longifolium** & **Nuttallii** insert: — Brew. & Wats. l. c.

Under **Thlaspi alpestre** insert: — Brew. & Wats. Bot. Calif. 1. 45.

74. Under **Thysanocarpus curvipes** insert: — Parry, Am. Naturalist, 9. 263. Brew. & Wats. Bot. Calif. 1. 48.

Insert **T. erectus.** Watson, l. c. 11. 113 & 124. Brew. & Wats. l. c. 49.

After **T. laciniatus** insert:
Var. **crenatus.** Brewer, Bot. Calif. 1. 49.

Under **T. laciniatus, pusillus** & **radians** insert: — Brew. & Wats. l. c.

Under **Tropidocarpum gracile** insert: — Brew. & Wats. Bot. Calif. 1. 44.

75. Insert **Vesicaria calycina.** Gray in herb.
Nasturtium calycinum. Engelm. Pl. Upp. Miss. 184.

Under **V. montana** insert: — Brew. & Wats. Bot. Calif. 1. 43.

CAPPARIDACEÆ.

76. Under **Atamisquea emarginata** insert: — Brew. & Wats. Bot. Calif. 1. 50.

After **Cleome integrifolia** & syn. insert:
Peritoma imbricata & *Atalanta serrulata.* Raf. Sylv. Tellur. 113.

Under **C. lutea, platycarpa** & **sparsifolia** insert: — Brew. & Wats. l. c. 51.

77. After *Peritoma aurea* insert: — *Isexine aurea.* Raf. Sylv. Tellur. 112.

Under **C. Sonoræ** insert: — Brandegee, Fl. S. W. Col. 233. Brew. & Wats. Bot. Calif. 1. 51.

Under **Cleomella longipes, obtusifolia, parviflora** & **plocasperma** insert: — Brew. & Wats. Bot. Calif. 1. 52.

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77. After **C. longipes** insert:
Var. (?) **grandiflora.** Watson, King's Rep. 5. 33. Brew. & Wats. l. c.

Insert **C. oocarpa.** Gray, Proc. Am. Acad. 11. 72. Brandegee, l. c. 233. Brew. & Wats. l. c.

After *Cyrbasium erosum* insert: — *Dispara filiformis.* Raf. Sylv. Tellur. 113.

Under **Isomeris arborea** insert: — Brew. & Wats. Bot. Calif. 1. 50.

Under **Oxystylis lutea** insert: — Brew. & Wats. Bot. Calif. 1. 53.

78. After *Cleome dodecandra* insert:
Jacksonia trifoliata. Raf. Med. Bot. 5. 354. Desv. in Journ. Bot. 2. 170.

RESEDACEÆ.

Insert **RESEDA** LUTEOLA, Linn. Torr. & Gray, Fl. 1. 125. Gray, Manual, 70. Brew. & Wats. Bot. Calif. 1. 53.

CISTACEÆ.

After *Cistus Canadensis* insert:
Menandra Gronovii. Forster, Cat. Pl. N. Am. 27.

79. Under **Helianthemum scoparium** insert: — Brew. & Wats. Bot. Calif. 1. 54.

80. After **Lechea tenuifolia** insert:
? *L. juncifolia.* Walter, 83; fide Elliott. Gmelin, Syst. 1. 209.

81. Before **L. Torreyi** insert: — *Menandra ternata.* Forster, Cat. Pl. N. Am. 23.

VIOLACEÆ.

Insert **Viola aurea.** Kellogg, Proc. Calif. Acad. 2. 185, **f. 54.** Brew. & Wats. Bot. Calif. 1. 56.
V. præmorsa. Hook. & Arn. Bot. Beechey, 325. Benth. Pl. Hartw. 398. Durand, Pl. Pratten. 82.
V. Nuttallii. Benth. l. c. Anderson, Cat. Pl. Nev. 118.
V. pedunculata. Torrey, Pac. R. Rep. 4. 68, in part. Gray, Proc. Bost Soc. 7. 146.
V. Nuttallii, var. *præmorsa.* Watson, King's Rep. 5. 35.

Var. **venosa.** Watson, Bot. Calif. 1. 56.
V. purpurea. Kellogg, l. c. 1. 56.
V. Nuttallii, var. (?) *venosa.* Watson, King's Rep. 5. 35 & 416. Coulter. Hayd. Rep. 1872, 762?

Under **V. Beckwithii** insert: — Brew. & Wats. Bot. Calif. 1. 58.

Under **V. biflora** insert: — See syn. in Maxim. Bull. Acad. Petersb. 23. 334 (Mel. Biol. 9. 749).

Under **V. blanda** insert: — Brew. & Wats. l. c. 55. Maxim. l. c. 23. 322 (Mel. Biol. 9. 732), giving as syn. *V. brachyceras*, Turcz. Fl. Baic. 1. 183.

82. Under **V. canina**, var. **sylvestris**, insert: — Brew. & Wats. Bot. Calif. 1. 55.
Kept distinct (as *V. sylvestris*, Kit.) by Maxim. l. c. 330 (Mel. Biol. 9. 743).

Under Var. **adunca** insert: — Brew. & Wats. l. c.

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83. Before **V. longipes** insert:

Var. **oxyceras**. Watson, Bot. Calif. 1. 56.

Var. **longipes**. Watson, l. c.

V. adunca. Hook. Fl. Bor.-Am. 1. 79, in part.

Under **V. chrysantha** insert: — Brew. & Wats. Bot. Calif. 1. 58.

Under **V. cucullata** insert: — Brew. & Wats. l. c. 55.

84. Under **V. glabella** insert: — Brew. & Wats. Bot. Calif. 1. 57. Maxim. l. c. 336 (Mel. Biol. 9. 752).

After **V. glabella** & syn. insert:

V. pubescens, var. *scabriuscula*. Gray, Manual, 79. Distinct, fide Maxim. l. c.

87. Under **V. sarmentosa** & **Sheltoni** insert: — Brew. & Wats. l. c. 58.

Under **V. Selkirkii** insert: — Maxim. l. c. 321 (Mel. Biol. 9. 730), with syn.

88. Under **V.** TRICOLOR insert: — Brew. & Wats. Bot. Calif. 1. 56.

After *V. tenella* insert: — *V. arvensis*, DC. Elliott, 1. 302.

In *Cross-references* insert:

V. montana; Beckwithii.

Nuttallii, pedunculata & *præmorsa*; aurea.

POLYGALACEÆ.

89. Under **Amoreuxia**, each species, insert: — Walp. Ann. 4. 341.

Under **Krameria canescens** & **lanceolata** insert: — Brew. & Wats. Bot. Calif. 1. 60.

Under **K. parvifolia** insert: — Parry, Am. Naturalist, 9. 269. Brew. & Wats. l. c.

Insert **Polygala acanthoclada**. Gray, Proc. Am. Acad. 11. 73. Brandegee, Fl. S. W. Col. 234. Brew. & Wats. Bot. Calif. 1. 59.

90. Insert **P. Californica**. Nutt.; Torr. & Gray, Fl. 1. 671. Brew. & Wats. l. c.

P. Nutkana. Torr. & Gray, Fl. 1. 671. Torrey, Bot. Wilkes, 205.

P. cucullata. Newberry, Pac. R. Rep. 6. 70. Durand, Pl. Pratten. 81, excl. descr.

P. cornuta. Kellogg, Proc. Calif. Acad. 1. 61.

P. cucullata. Benth. Pl. Hartw. 299. Walp. Ann. 2. 81. Torrey, Pac. R. Rep. 4. 6 & 7. 9. Brew. & Wats. l. c.

P. Nutkana. Torrey, Mex. Bound. 49, **t. 12**. Boland. Cat. 8.

93. Under **P. subspinosa** insert: — Parry, l. c. 269. Brew. & Wats. l. c.

Under **P. Xanti** insert: — Brew. & Wats. l. c.

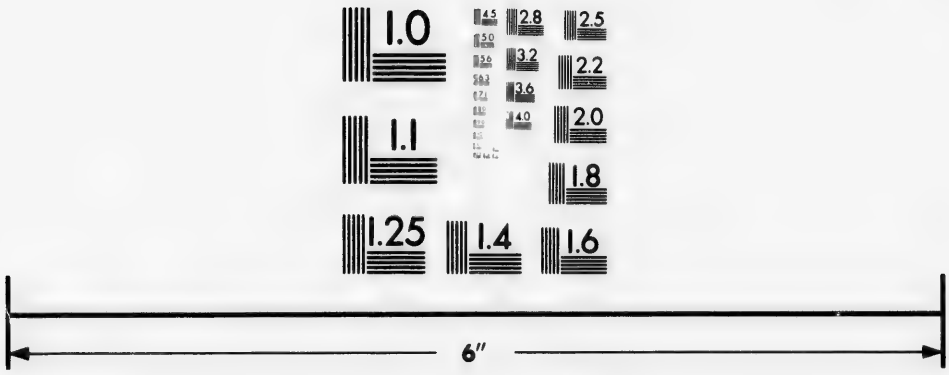
Under *Cross-references* insert: — "*Nutkana*; ovalifolia:" — and dele "*cornuta*; Nutkana" & "*cucullata*; Nutkana."

FRANKENIACEÆ.

94. Under **Frankenia grandiflora** & **Jamesii** insert: — Brew. & Wats. Bot. Calif. 1. 60 & 61.

Insert **F. Palmeri**. Watson, Proc. Am. Acad. 11. 124. Brew. & Wats. Bot. Calif. 1. 61. (Lower California.)

IMAGE EVALUATION
TEST TARGET (MT-3)



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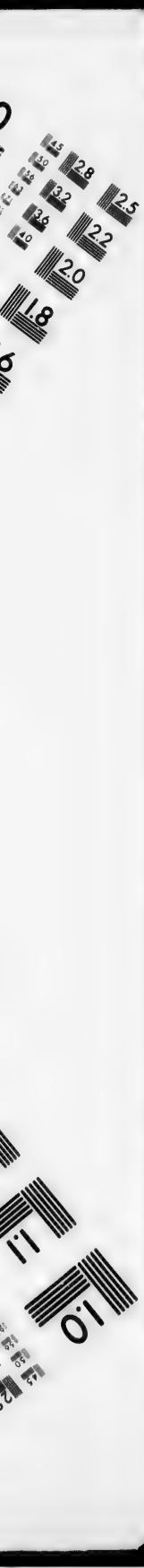
2.5
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CARYOPHYLLACEÆ.

Page

Under **Alsine**, *Cross-references*, insert: — *A. Sagina*; Bartonia tenella.

95. Under **Arenaria brevifolia** insert: — Gray, Proc. Am. Acad. 11. 72.

Under **A. Californica, capillaris** & **Franklinii** insert. — Brew. & Wats. Bot. Calif. 1. 69.

After **A. congesta** & syn. insert:
Var. **subcongesta**. Watson, Bot. Calif. 1. 69.
A. Fendleri, var. *subcongesta*. Watson, King's Rep. 5. 40; Pl. Wheeler, 6. Porter, Fl. Col. 13. Rothr. Pl. Wheeler, 35.

96. Under *A. diffusa* insert: — Curtis, Bot. N. Car. 125. Gray, Bot. Wilkes Expl. Exp. 1. 115.

Under **A. lateriflora** & **macrophylla** insert: — Brew. & Wats. l. c. 70.

98. Under **A. pungens** insert: — Brandegee, Fl. S. W. Col. 233. Brew. & Wats. Bot. Calif. 1. 69.

Under **A. tenella** insert: — Brew. & Wats. l. c.
Greniera tenella. Gay, Ann. Sci. Nat. 3. 4. 27.

100. Under **Cerastium arvense** & **nutans** insert: — Brew. & Wats. l. c. 67.

101. Under **C. pilosum** insert: — Brew. & Wats. l. c. 67.

Under *C. stellarioides* insert: — Moç. & Sesse, Icon. Ined. **t. 54.**

Under *C. oblongifolium* insert: — Boland. Cat. 6.

102 Under **Dianthus** ARMERIA dele *D. Carolinuana*, Walter, &c. (which is *Dodecatheon Meadia*).

After *D. armerioides* insert: — *Alocion armerioides* Raf. Autikon Bot. 29.

103. Under **Lepigonum macrothecum** & **medium** insert: — Brew. & Wats. Bot. Calif. 1. 71.

Under **L. rubrum** insert: — See syn. in Muell. Pl. Indig. Vict. 1. 207, under *Spergularia*.

104. Under **Lœflingia squarrosa** insert: — Brew. & Wats. Bot. Calif. 1. 72.

Under **Lychnis affinis, alpina, apetala** & var., insert: — Watson, Proc. Am. Acad. 12. 246 & 247.

105. Under **Polycarpon depressum** & TETRAPHYLLUM insert: — Brew. & Wats. Bot. Calif. 1. 71.

Under **Sagina apetala** & *procumbens* insert: — Muell. l. c. 208 & 209.

106. Under **S. Linnæi** & **occidentalis** insert: — Brew. & Wats. l. c. 70.

107. Under **Silene antirrhina** insert: — Watson, Proc. Am. Acad. 10. 340 & 11. 113. Brandegee, Fl. S. W. Col. 233. Brew. & Wats. Bot. Calif. 1. 63.
Ebraxis virgata. Raf. Autikon Bot. 29.

Insert **S. Grayi**. Watson, Proc. Am. Acad. 13. —.

108. Under **S. laciniata** insert: — Poir. Dict. 7. 184. Persoon, 1. 498. Watson, l. c. 10. 341, excl. var. *Californica*. Brew. & Wats. l. c. 64. Garden, 11. 12.

Under Var. **Greggii** insert: — Watson, l. c.

Under **S. Lemmoni** & **Lyallii** insert: — Brew. & Wats. l. c.

Under **S. Menziesii** insert: — Watson, l. c. Brew. & Wats. l. c.

109. After **S.** NOCTURNA insert: — ? *S. furcata*. Raf. Autikon Bot. 28.

Under **S. occidentalis** insert: — Brew. & Wats. l. c. 64.

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109. **S. Oregana.** Watson, l. c. 10. 343. Brew. & Wats. l. c. 65.

S. Palmeri. Watson, l. c 11. 124. Brew. & Wats. l. c.

S. pectinata. Watson, l. c. 10. 344. Brew. & Wats. l. c.

Under **S. Scouleri** insert: — Watson, l. c. 10. 342. Brew. & Wats. l. c. 66.

S. Spaldingii. Watson, l. c. 10. 344. Brew. & Wats. l. c.

110. Under *Cucubalus stellatus* insert: — Barton, Elem. Bot. **t. 17, f. 3.** Barton f. Comp. Fl. Phil. 1. 211. James, Long's Exp. 1. 317.

Insert **S. Thurberi.** Watson, Proc. Am. Acad. 10. 343.

Under **S. verecunda** insert: — Brew. & Wats. l. c. 65.
S. Nicæensis. Cham. & Schlecht. in Linnæa, 1. 41.
S. Drummondii. Torr. & Gray, Fl. 1. 191, in part. Hook. & Arn. Bot. Beechey, 135. Torrey, Pac. R. Rep. 4. 69, in part. Boland. Cat. 6.
Elisanthe Chamissonis. Ruprecht, Fl. Cauc. 1. 201.
S. Engelmanni, var. *Behrii.* Rohrb. in Linn. 36. 264.

Under **S. Wrightii** insert: — Watson, Proc. Am. Acad. 10. 341.

Under *Cross-references* insert:
S. rubicunda; Pennsylvanica.
——?; laciniata, Lychnis Californica.

Under **Spergula** ARVENSIS insert: — Brew. & Wats. Bot. Calif. 1. 71.

111. Under **Stellaria borealis** insert: — Brew. & Wats. l. c. 68.

Under **S. humifusa** insert: — Greville, Mem. Soc. Wern. 3. 429.

112. Under **S. Jamesii** & **longipes** insert: — Brew. & Wats. l. c.

After **S. longipes** insert: — ? *S. graminea.* Greville, Mem. Soc. Wern. 3. 429.

113. Under **S.** MEDIA insert: — Brew. & Wats. Bot. Calif. 1. 67.

After *Alsine media* insert:
? *Polycarpon uniflorum.* Walter, 83. Poir. Dict. 5. 482.

Under **S. nitens** insert: — Watson, l. c. 11. 113. Brew. & Wats. l. c. 67.

114. Under *S. gracilis* insert: — Macoun & Gibson, Trans. Edinb. 12. 318.

Under **S. umbellata** insert: — Brew. & Wats. l. c.

PARONYCHIEÆ.

Under **Achyronychia Cooperi** insert: — Brew. & Wats. l. c. 73.

Under **Anychia dichotoma** insert: — Redfield, Torr. Bull. 6. 61.

115. Under **Pentacæna ramosissima** insert: — Brew. & Wats. Bot. Calif. 1. 72.

Under *P. polycnemoides* insert: — Griseb. Pl. Lorentz. 30.

PORTULACACEÆ.

117. Under **Calyptridium monandrum** & **roseum** insert: — Brew. & Wats. Bot. Calif. 1. 77.

Insert **Claytonia bulbifera.** Gray, Proc. Am. Acad. 12. 54.

Under **C. Chamissonis** insert: — Brew. & Wats. l. c. 76.

118. Under **C. parvifolia** insert: — Brew. & Wats. l. c.

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118. Under **C. perfoliata** insert: — Watson, l. c. 11. 113. Brew. & Wats. l. c. 75.

Under Var. **parviflora** insert: — Brew. & Wats. l. c.

Under *C. parviflora* insert: — Gray, Proc. Am. Acad. 12. 54.

119. Under **C. Sibirica** & **umbellata** insert: — Brew. & Wats. l. c. 76.

Under *C. alsinoides* & **Virginica** insert: — Fenzl, Ledeb. Fl. Ross. 2. 150 & 146.

Insert **C. triphylla.** Watson, l. c. 10. 345. Brew. & Wats. l. c. 77.

120. Under **Lewisia rediviva** insert: —Brew. & Wats. Bot. Calif. 1. 79.

Under **Montia fontana** insert: — Brew. & Wats. l. c. 77.

Under **Portulaca** OLERACEA & **pilosa** insert: — Brew. & Wats. l. c. 74.

121. Under **P. retusa** insert: — Brandegee, Fl. S. W. Col. 233. Brew. & Wats. l. c.

Under **Spraguea paniculata** & **umbellata** insert: — Brew. & Wats. l. c. 78.

Under **Talinum spinescens** insert: — Brew. & Wats. Bot. Calif. 1. 74.

Under *Phemeranthus teretifolius* insert: — Raf. Med. Rep. 5. 351; Desv. Journ. Bot. 2. 167.

TAMARISCINEÆ.

Under **Fouquiera formosa** insert: — Don, Mill. 3. 70. Brew. & Wats. Bot. Calif. 1. 79.

122. Under **F. spinosa** & **splendens** insert: — Brew. & Wats. l. c.

Insert **TAMARIX** GALLICA, Linn. Joor, Torr. Bull. 6. 166.

ELATINEÆ.

Insert **Elatine brachysperma.** Gray, Proc. Am. Acad. 13. —.
E. Americana. Gray, Hall's Pl. Texas, 5.

E. Californica. Gray, l. c.

E. triandra. Gray, l. c.
E. Americana. Gray, Proc. Acad. Philad. 1863, 58.

Under **Bergia Texana** insert: — Brew. & Wats. l. c. 80.

HYPERICACEÆ.

123. After **Ascyrum Crux-Andreæ** insert: — *Hypericum parviflorum.* Salisb. Prodr. 369.

Dele **A. microsepalum.**

124. After **Hypericum adpressum** insert: — *H.* ——? Barton, Prodr. Fl. Phil. 74.

Under **H. anagalloides** insert: — Brew. & Wats. Bot. Calif. 1. 81.

125. Under **H. concinnum** insert: — Brew. & Wats. l. c.

127. Under **H. Kalmianum** insert: — Barton, Elem. Bot. **t. 19, f. 2** (fl.).

Insert **H. microsepalum.** Gray, in herb.
Isophyllum Drummondii. Spach, Ann. Sci. Nat. 2. 5. 367; Hist. Veg. 5. 433.
Ascyrum microsepalum. Torr. & Gray, Fl. 1. 157; Eat. & Wr. 140. Dietr. 4. 1239. Chapman, 39. Wood, Cl.-Book, 247; Bot. & Fl. 48.

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128. Transpose **H. setosum** and **Sarothra**, with syn., and insert **H. Scouleri** from page 126.

129. Under *Cross-references* insert: — *formosum*; Scouleri.

130. After **Stuartia pentagyna** insert: — *Cavanilla florida*. Salisb. Prodr. 385.

131. Under **S. Virginica** insert: — Gard. Chron. 2. 8. 433, **f. 86.**

After *S. Malachodendron* insert: — *S. nobilis*. Salisb. Prodr. 386.

MALVACEÆ.

After **Abutilon** AVICENNÆ insert: — *A. mollissimum*. Raf. New Flora, 1. 39.

Under **A. crispum** & **Palmeri** insert: — Brew. & Wats. Bot. Calif. 1. 87.

After *Sida amplexicaulis* insert: — *Sida gracilis*. Salisb. Prodr. 382.

After *Sida lignosa* insert: — *A. decarpum*. Raf. New Flora, 1. 40.

Insert **A. Newberryi**. Watson, Proc. Am. Acad. 11. 125. Brew. & Wats. l. c. *Sphæralcea incana*. Gray, Ives' Rep. 8.

133. Under **Calirrhoe digitata** insert: — Thompson, Garden, 12. 69.

After *Nuttallia pedata* insert: — *Sida digitata* & *pedata*. Spreng. Syst. 4^2. 259.

134. Insert **Fugosia heterophylla**. Spach, Hist. Veg. 3. 397. Hook. Bot. Mag. **t. 4218.** Chapman, Coult. Bot. Gazette, 3. 3.

Redoutea heterophylla. Vent. Hort. Cels, **t. 11.** HBK. Nov. Gen. 5. 293. DC. Prodr. 1. 457. Spreng. Syst. 3. 309.

Under **Gossypium Davidsoni** insert: — Brew. & Wats. Bot. Calif. 1. 82.

After *Malvaviscus Floridanus* insert: — *Achania Floridana*. Raf. New Flora, 1. 49.

Under **Hibiscus Californicus** & **denudatus** insert: — Brew. & Wats. l. c. 87.

After **H. coccineus** & syn. insert:

Var. **integrifolius**. Chapman, Coult. Bot. Gazette, 3. 3.

136. Under **Malva** BOREALIS insert: — Watson, l. c. 113. Brew. & Wats. l. c. 83.

M. rotundifolia. Hook. & Arn. Bot. Beechey, 326. Boland. Cat. 7.

Insert **M.** ALCEA, Linn. Gray, Manual, 100.

M. CRISPA, Linn. Gray, Manual, 99.

137. Insert **M.** PARVIFLORA, Linn. Chapman, Coult. Bot. Gazette, 3. 2.

138. Under **M. exile** insert: — Brandegee, Bot. S. W. Colorado, 234.

Under **M. marrubioides** & **Munroanum** insert: — Brew. & Wats. l. c.

After *Sphæralcea Munroana* insert: — *M. Thurberi*. Anderson, Cat. 118.

Insert **M. Palmeri**. Watson, Proc. Am. Acad. 12. 250.

Under **M. spicatum** insert: — Chapman, Coult. Bot. Gazette, 3. 2.

140. Insert **Pavonia** SPINIFEX, Linn. Leggett, Torr. Bull. 5. 27. Chapman, Coult. Bot. Gazette, 3. 2.

Insert **Sida** CORDIFOLIA, Linn. Chapman, Coult. Bot. Gazette, 3. 2.

Under **S. hederacea** insert: — Brew. & Wats. Bot. Calif. 1. 86.

142. Under **Sidalcea diploscypha, Hartwegi, malachroides** & **malvæflora** insert: — Brew. & Wats. Bot. Calif. 1. 84.

After *Malva malachroides* insert: — *S. vitifolia*. Gray, Proc. Am. Acad. 7. 332. Boland. Cat. 7.

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143. Under **Sphæralcea angustifolia** insert: — Brew. & Wats. l. c. 86.

144. Under **S. Lindheimeri** insert: — Brew. & Wats. l. c.

Insert **S. sulphurea.** Watson, Proc. Am. Acad. 11. 113 & 125. Brew. & Wats. Bot. Calif. 1. 86. (Guadalupe Is.)

URENA RIBESIA, Smith? Chapman, Coult. Bot. Gazette, 3. 3.

STERCULIACEÆ.

Under **Fremontia Californica** insert: — Brew. & Wats. Bot. Calif. 1. 88.

Insert **Melochia** HIRSUTA. Cav. Diss. 6. 323, **t. 175, f. 1.**
Riedleia hirsuta, DC. Chapman, Coult. Bot. Gazette, 3. 3.

M. SERRATA. Benth.; Griseb. Fl. Brit. W. Ind. 93.
Riedleia serrata, Vent. Chapman, l. c.

TILIACEÆ.

145. After *Tilia glabra* insert: — *T. latifolia.* Salisb. Prodr. 367.

After *T. laxiflora* insert: — *T. grata.* Salisb. l. c.

LINACEÆ.

146. Under **Linum aristatum** & **digynum** insert: — Brew. & Wats. l. c. 89.

Under **L. adenophyllum, Breweri, Californicum, congestum** & **micranthum** insert: — Brew. & Wats. l. c. 90.

Under **L. perenne** insert: — Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 318. Brew. & Wats. l. c. 89.

147. Under **L. spergulinum** & USITATISSIMUM insert: — Brew. & Wats. l. c. 90.

Under **L. striatum** & **sulcatum** insert: — Macoun & Gibson, l. c.

ZYGOPHYLLACEÆ.

148. Under **Fagonia Californica** insert: — Brew. & Wats. Bot. Calif. 1. 92.

149. Under **Larrea Mexicana** insert: — Brew. & Wats. l. c.

Under **Tribulus grandiflorus** & **maximus** insert: — Brew. & Wats. l. c. 91.

Insert **T. Californicus.** Watson, Proc. Am. Acad. 11. 125. Brew. & Wats. Bot. Calif. 1. 91. (Lower California.)

GERANIACEÆ.

Insert **Erodium** BOTRYS, Bertol. Brew. & Wats. Bot. Calif. 1. 95.

Under **E. cicutarium** insert: — Watson, Proc. Am. Acad. 11. 108 & 113. Brew. & Wats. l. c. 94.

150. Under **E. macrophyllum** & **Texanum** insert: — Brew. & Wats. l. c. 95.

Under **E.** MOSCHATUM insert: — Watson, l. c. 114. Brew. & Wats. l. c.

Under **Flœrkia proserpinacoides** insert: — Brew. & Wats. l. c.

Under **Geranium cæspitosum** & **Carolinianum** insert: — Brew. & Wats. l. c. 94.

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151. Under **G. maculatum** insert: — Barton, Veg. Mat. Med. 1, **t. 13.**

Under **G. Richardsoni** insert: — Brew. & Wats. l. c.

152. Under **Impatiens fulva** insert: — Tuckerman, Josselyn's Rarities, 104, **fig.**

Under **Limnanthes Douglasii** insert: — Brew. & Wats. l. c.

Under **Oxalis Acetosella** insert: — Brew. & Wats. l. c. 96.

153. Under **O. corniculata** insert: — Muell. Pl. Indig. Vict. 1. 177. Brew. & Wats. l. c.

Under *O. pusilla* & *ambigua* insert: — Salisb. Prodr. 322.

Under **O. Oregana** insert: — Brew. & Wats. l. c.

154. After *O. longiflora* insert: — *O. pulchella.* Salisb. Prodr. 321.

RUTACEÆ.

Insert **CANOTIA holacantha.** Torrey, Pac. R. Rep. 4. 68. Gray, Ives' Rep. 15; Proc. Am. Acad. 12. 159. Baillon, Adansonia, 10. 18; Hist. Pl. 6. 7 & 42. Brew. & Wats. Bot. Calif. 1. 100.

Kaberlinia (?) —— ? Engelm. in Emory's Rep. 158, **f. 14.**

Under **Ptelea angustifolia** insert: — Brew. & Wats. Bot. Calif. 1. 97.

After **P. trifoliata** insert: — *Amyris elemifera.* Linn. Spec. 2 ed. 295, as to syn. Catesb. & hab. St. Hil. Fam. Nat. 1. 253.

P. villicifolia. Salisb. Prodr. 68.

155. Under **Thamnosma montanum** insert: — Brew. & Wats. Bot. Calif. 1. 97.

Under **T. Texanum** insert: — Brandegee, Fl. S. W. Col. 234. Brew. & Wats. l. c.

156. After *Xanthoxylum tricarpum* insert: — *Kampmania fraxinifolia.* Raf. Med. Rep. 5. 354. Desv. Journ. Bot. 2. 170.

SIMARUBEÆ.

Insert **SURIANA maritima.** Linn. Spec. 284. [DC. Prodr. 2. 91. Benth. Fl. Austral. 1. 375. Griseb. Fl. Brit. W. Ind. 58.] Torr. & Gray, Fl. 1. 556. Chapman, 149.

OLACINEÆ.

157. Insert **SCHŒPFIA arborescens.** Roem. & Schult. Syst. 5. 160, with syn. [DC. Prodr. 4. 319 & 14. 622. Griseb. Fl. Brit. W. Ind. 310.] Chapman, Coult. Bot. Gazette, 3. 3.

ILICINEÆ.

158. Under **Ilex** *vomitoria* insert: — Salisb. Prodr. 70. Curtis, Bot. N. Car. 126. Croom, Cat. Pl. Newbern, 45.

CELASTRACEÆ.

162. After **Euonymus** *latifolius* insert: — *E. tristis.* Salisb. Prodr. 142.

Under **E. occidentalis** insert: — Brew. & Wats. Bot. Calif. 1. 98.

Dele **Glossopetalon.** (To *Sapindaceæ.*)

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Under **Mortonia Greggii** insert: — Baillon, Hist. Pl. 6. 7 & 42.

Insert **Myginda pallens.** Smith, Rees Cycl. [DC. Prodr. 2. 13. Griseb. Fl. Brit. W. Ind. 146.] Chapman, Coult. Bot. Gazette, 3. 3.

163. Under **Pachystima Myrsinites** insert: — Brew. & Wats. Bot. Calif. 1. 99. Hall, Coult. Bot. Gazette, 2. 86.

RHAMNACEÆ.

Insert **Adolphia Californica.** Watson, Proc. Am. Acad. 11. 126. Brew. & Wats. Bot. Calif. 1. 101.

A. infesta. Torrey, Mex. Bound. 45, in part.

Under **A. infesta** insert: — Watson, l. c. Brew. & Wats. l. c.

Under *Rhamnus volubilis* insert: — Forster, Cat. Pl. N. Am. 27.

164. After *Ceanothus trinervus* insert: — *Forestia thyrioides.* Raf. Med. Rep. 5. 351. Desv. Journ. Bot. 2. 168.

Under **C. cordulatus** & **decumbens** insert: — Brew. & Wats. l. c. 103.

Under **C. crassifolius** & **cuneatus** insert: — Watson, Proc. Am. Acad. 11. 114. Brew. & Wats. l. c. 104.

165. Under **C. dentatus** & **integerrimus** insert: — Brew. & Wats. l. c. 102.

Under **C. divaricatus** insert: — Gard. Chron. 1843, 523. Brew. & Wats. l. c. 103.

Under **C. floribundus** insert: — Brew. & Wats. l. c. 104.

Under **C. hirsutus** & **incanus** insert: — Brew. & Wats. l. c. 103.

Under **C. integerrimus** insert:

Var. **parvifolius.** Watson, l. c. 10. 334. Brew. & Wats. l. c. 102.

166. Under **C. papillosus, prostratus** & **rigidus** insert: — Brew. & Wats. l. c. 104.

Under **C. Oreganus** insert: — Hall, Coult. Bot. Gazette, 2. 86.

Under **C. sorediatus** & **spinosus** insert: — Brew. & Wats. l. c. 103.

After **C. sorediatus** insert: — ? *C. collinus.* Dougl.; Knight & West, Fl. Cab. 1, **t. 13.** Maund, Bot. 1, **t. 16.** Loud. Arb. 4. 2547, **fig. 2431.**

Under **C. thyrsiflorus** insert: — Brew. & Wats. l. c. 102.

167. Under **C. Veitchianus** insert: — Brew. & Wats. l. c. 104.

Under **C. velutinus** insert: — Brew. & Wats. l. c. 102. Hall, Coult. Bot. Gazette, 2. 86.

168. Under **Microrhamnus ericoides** insert: — Brew. & Wats. Bot. Calif. 1. 99. Referred to *Condalia* by Baillon, Hist. Pl. 6. 64.

Under **Rhamnus alnifolia** insert: — Brew. & Wats. l. c. 100.

Under **R. Californica** insert: — Brandegee, Fl. S. W. Col. 234. Brew. & Wats. l. c. 101.

After *Endotropis oleifolia* insert: — ? *Perfonon laurifolium.* Raf. Sylv. Tellur. 29.

After Var. **tomentella** & syn. insert: — *Karwinskia Humboldtiana.* Watson, Pl. Wheeler, 7.

169. Under **R. crocea** insert: — Palmer, Am. Naturalist, 8. 247. Watson, Proc. Am. Acad. 11. 114. Brew. & Wats. l. c. 100.

Insert **R. Insulus.** Kellogg, Proc. Calif. Acad. 2. 20. (Cerros Is.)

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169. Under **R. Purshiana** insert: — Brew. & Wats. l. c. 101. Hall, l. c.

170. Under **Zizyphus Parryi** insert: — Benth. & Hook. Gen. Pl. 1. 376. Brew. & Wats. Bot. Calif. 1. 99.

VITACEÆ.

Under *Vitis quinquefolia* insert: — Benth. & Hook. Gen. Pl. 1. 387.

172. After *Ampelopsis pinnata* insert: — *Nekemias bipinnata.* Raf. Fl. Tellur. 87.

Under **Vitis Arizonica** & **Californica** insert: — Brew. & Wats. l. c. 105.

173. After *Cissus Ampelopsis* insert: — *Ampelopsis cordifolia.* Raf. Fl. Tellur. 88.

174. Insert **V. sicyoides.** Benth. & Hook. Gen. Pl. 1. 387, uniting the genera *Vitis* & *Cissus.* See syn. in Griseb. Fl. Brit. W. Ind. 102, as *Cissus.* — Chapman, Coult. Bot. Gazette, 3. 3.

Cissus sicyoides. Linn. Spec. 2 ed. 170.

SAPINDACEÆ.

Under **Acer circinatum** insert: — Brew. & Wats. Bot. Calif. 1. 107. Hall, Coult. Bot. Gazette, 2. 85.

A. virgatum. Raf. New Flora, 1. 48.

Under **A. glabrum** insert: — Brew. & Wats. l. c.

Under **A. macrophyllum** insert: — Brew. & Wats. l. c. Hall, l. c.

A. palmatum. Raf. New Flora, 1. 48.

177. Under **Æsculus Californica** insert: — Gard. Chron. 1858, 844. Brew. & Wats. Bot. Calif. 1. 106. Berry, Garden, 12. 204, **figs.**

179. After *Pavia rubra* insert: — *Pavia Americana.* St. Hil. Fam. Nat. 2. 152.

Insert **GLOSSEPETALON Nevadense.** Gray, Proc. Am. Acad. 11. 73. Brew. & Wats. Bot. Calif. 1. 109.

G. spinescens. Gray, Pl. Wright. 2. 29, **t. 12**; Pl. Thurb. 299; Proc. Am. Acad. 11. 73. Torrey, Pac. R. Rep. 4. 74; Mex. Bound. 47. Walp. Ann. 4. 426. Baillon, Hist. Pl. 6. 7 & 42. Brandegee, Fl. S. W. Col. 234. Brew. & Wats. l. c.

180. Under **Negundo aceroides** insert: — Macoun & Gibson, Trans. Bot. Soc. Edinb. 12. 319. Brew. & Wats. Bot. Calif. 1. 108.

After *N. fraxinifolium* insert: — *Acer fraxinifolium, trifoliatum* & *lobatum.* Raf. New Flora, 1. 48.

Under **N. Californicum** insert: — Brew. & Wats. l. c.

Insert **Sapindus Saponaria.** Linn. Spec. 367. [DC. Prodr. 1. 607. Griseb. Fl. Brit. W. Ind. 126.] Chapman, Coult. Bot. Gazette, 3. 3.

After *S. falcatus* insert: — *S. acuminata.* Raf. New Flora, 22.

Under **Serjania incisa** insert: — Walp. Ann. 7. 619. Radlkofer, Monog. Serj. 267.

Serjania ? aff. *S. racemosæ.* Gray, Pl. Wright. 1. 38.

181. Under **S. racemosa** insert: — Radlkofer, l. c., with syn.

Under **Staphylea Bolanderi** insert: — Brew. & Wats. Bot. Calif. 1. 108.

Insert **S.** (?) **geniculata.** Kellogg, Proc. Calif. Acad. 2. 22. (Cerros Islands.)

ANACARDIACEÆ.

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181. Under **Pistacia Mexicana** insert: — Brew. & Wats. Bot. Calif. 1. 109.

182. Under **Rhus diversiloba** insert: — Brew. & Wats. Bot. Calif. 1. 110. Hall, Coult. Bot. Gazette, 2. 85.

After *R. lobata* insert: — *R. Toxicodendron*, var. Gray, Mem. Am. Acad. 6. 384.

183. Under **R. integrifolia** insert: — Brew. & Wats. l. c.

Under **R. laurina** insert: — Watson, Proc. Am. Acad. 11. 114. Brew. & Wats. l. c. 111.

Under **R. Toxicodendron** insert:

R. Toxicarium & *humile*. Salisb. Prodr. 170.

184. After *Toxicodendron vulgare* insert: — *R. scandens*. Salisb. Prodr. 170.

Insert **R. Veatchiana**. Kellogg, Proc. Calif. Acad. 2. 24. (Cerros Islands.)

Under **Schinus** MOLLE insert: — Brew. & Wats. Bot. Calif. 1. 109.

LEGUMINOSÆ.

185. Under **Acacia Farnesiana** insert: — See syn. Benth. in Mart. Fl. Bras. 15^2. 394.

187. After *Amorpha perforata* insert: — *A. punctata*. Raf. New Flora, 3. 14.

189. After *Glycine filosa* insert: — *Savia volubilis*. Raf. Med. Rep. 5. 355. Desv. Journ. Bot. 2. 171.

After *Cryptolobus Americanus* insert: — *A. villosa, ciliata, etc.* Raf. New Flora, 1. 82 & 83.

Lobomon acutifolium, etc. Raf. New Flora, 1. 84.

Under **Apios tuberosa** insert: — Barton, Comp. Fl. Phil. 2. 82. Tuckerman, Josselyn's Rarities, 76. Thurber, Am. Agriculturist, 36. 21. Gray, same, 36. 22.

After *Glycine Apios* insert: — *Glycine tuberosa*. Salisb. Prodr. 335.

190. Insert **Astragalus allochrous**. Gray, Proc. Am. Acad. 13. —. (Coll. Palmer, Ariz. 1876, n. 588.)

A. amphioxys. Gray, l. c.

A. succumbens. Gray, Ives' Rep. 10.

A. Shortianus, var. (?) *minor*. Gray, Proc. Am. Acad. 6. 211. Watson, King's Rep. 5. 440.

A. cyaneus. Torr. & Gray, Pac. R. Rep. 2. 163. Torrey, Mex. Bound. 56. Watson, Am. Naturalist, 9. 270, excl. syn.

A. Shortianus. Watson, Pl. Wheeler, 7.

A. artipes. Gray, l. c. 13. —. (Coll. Palmer, N. Ariz. 1877.)

192. After **A. collinus** & syn. insert:

Var. **Californicus**. Gray, Proc. Am. Acad. 12. 54.

Dele **A. cyaneus** & syn.

A. confertiflorus. Gray, l. c. 13. —. (Coll. Palmer, 1877, n. 113.)

A. Cusickii. Gray, l. c. (Coll. Cusick, Oregon, 1877.)

193 **A. dispermus**. Gray, l. c. (Coll. Palmer, Ariz. 1876.)

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193. Under **A. flavus** insert:

Var. **candicans.** Gray, Proc. Am. Acad. 12. 54.

194. Under **A. Haydenianus** insert: — Gray, Proc. Am. Acad. 12. 56.

195. Under **A. humillimus** insert: — Gray, l. c. 12. 57.

A. lancearius. Gray, l. c. 13. —. (Coll. Palmer, 1877, n. 114.)

197. Under **A. Menziesii** insert: — Kellogg, Proc. Calif. Acad. 6. 3.

A. Mokiacensis. Gray, l. c. (Coll. Palmer, 1877, n. 105.)

198. Insert **A. Newberryi.** Gray, Proc. Am. Acad. 12. 55.

A. Chamæleuce. Gray, Ives' Rep. 10, in part. Watson, King's Rep. 5, 443, in part.

199. Under **A. Pattersoni** insert: — Gray, Proc. Am. Acad. 12. 55.

200. **A. procerus.** Gray, l. c. 13. —. (Coll. Palmer, 1877, n. 112.)

A. sabulorum. Gray, l. c. (Coll. Palmer, 1877, n. 110.)

A. scaposus. Gray, l. c. (Coll. Palmer, 1877, n. 109.)

201. Under *A. cyaneus* insert: — Gray, Pl. Fendl. 34. Walp. Ann. 2. 375.

Under **A. subcompressus** insert: — Gray, Proc. Am. Acad. 12. 56.

A. subcinereus. Gray, l. c. 13. —. (Coll. Palmer, 1877, n. 117.)

A. tetrapterus. Gray, l. c. (Coll. Palmer, 1877, n. 111.)

202. **A. triquetrus.** Gray, l. c. (Coll. Palmer, N. Ariz. 1877.)

A. ursinus. Gray, l. c. (Coll. Palmer, N. Ariz. 1877.)

A. tricarinatus. Gray, Proc. Am. Acad. 12. 56.

A. Wardi. Gray, l. c. 55.

207. Insert **Cassia ligustrina.** Linn. Spec. 378. [Griseb. Fl. Brit. W. Ind. 208. Benth. Rev. Cass. 534.] Chapman, Coult. Bot. Gazette, 3. 4.

209. After *Clitoria calcarigera* insert: — *Ternatea Virginiana.* St. Hil. Fam. Nat. 2. 226.

210. Under *Virgilia lutea* insert: — Michx. f. Trav. 289.

Insert **Crotalaria incana.** Linn. Spec. 716. [Cav. Icon. Rar. 4, t. **322.** DC. Prodr. 2. 132. Griseb. Fl. Brit. W. Ind. 180, with syn. Benth. in Mart. Fl. Bras. 15[1]. 27, with syn.] Chapman, Coult. Bot. Gazette, 3. 4.

C. maritima. Chapman, l. c.

Under **C. pumila** insert: — Chapman, l. c.

211. After *Genista angulata* insert: — *Sarothamnus scoparius,* Koch. Lawson, Proc. Nov. Scot. Instit. 4. 171.

218. Insert **Desmodium triflorum.** DC. Prodr. 2. 334. See syn. in DC. l. c.; Griseb. Fl. Brit. W. Ind. 186; Benth. in Mart. Fl. Bras. 15[1]. 95, t. **26.** — Chapman, Coult. Bot. Gazette, 3. 4.

219. Insert **ECASTAPHYLLUM Brownei.** Persoon, 2. 277. See syn. in DC. Prodr. 2. 420; Benth. in Mart. Fl. Bras. 15[1]. 228. — Chapman, l. c.

Insert **Erythrina Corallodendron.** Linn. Spec. 706? [DC. Prodr. 2. 411. Griseb. Fl. Brit. W. Ind. 199. Benth. l. c. 174.] Chapman, l. c.

After **E. herbacea** insert: — *E. humilis.* Salisb. Prodr. 335.

220. Insert **Galactia Cubensis.** HBK. Nov. Gen. 6. 429. [DC. Prodr. 2. 237.] Chapman, Coult. Bot. Gazette, 3. 4.

G. spiciformis, var. Chapman, Fl. 108.

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223. Under *Hedysarum alpinum* insert: — Glehn, Act. Hort. Petrop. 4. 34.

232. After **Lespedeza angustifolia** insert: — *Trifolium alpinum.* Forster, Cat. Pl. N. Am. 48.

233. Under **L.** STRIATA insert: — Chapman, Coult. Bot. Gazette, 3. 4.

235. Insert **Lupinus Arizonicus.** Watson, Proc. Am. Acad. 12. 250.
L. sparsiflorus. Torrey, Pac. R. Rep. 4. 81, in part.
L. hirsutissimus. Gray, Ives' Rep. 9.
L. concinnus, var. (?) *Arizonicus.* Watson, Rev. Lup. 537. Brew. & Wats. Bot. Calif. 1. 124.

236. Dele **L. concinnus**, var. **Arizonicus.**

238. Dele **L. micranthus**, var. **trifidus.**

241. Insert **L. trifidus.** Torrey; Watson, Proc. Am. Acad. 12. 250.
L. bicolor. Torrey, Pac. R. Rep. 4. 81, in part.
L. micranthus, var. *trifidus.* Watson, Rev. Lup. 535. Brew. & Wats. l. c. 123.

245. Under **Oxytropis Lamberti** insert: — Kellogg, Proc. Calif. Acad. 6. 4.

252. Under **Prosopis juliflora** insert: — Benth. in Mart. Fl. Bras. 15². 289, & syn.
Insert **Psoralea castorea.** Watson, Proc. Am. Acad. 13. —.

254. Insert **P. mephitica.** Watson, l. c.

257. Under **Robinia Pseudacacia** insert: — Gard. Chron. 2. 6. 748 (vars.).
R. fragilis. Salisb. Prodr. 336.
Var. **Decaisneana.** Carriere, Rev. Hort. 1863, 151, **t.** Garden, 9. 36, fig. Belg. Hort. 1876, 111.

269. Insert **Vicia Reverchoni.** Watson, Proc. Am. Acad. 13. —

270. Transpose *Anonymos frutescens* & *Glycine frutescens*, and insert:
Kraunhia frutescens. Raf. Med. Rep. 5 355. Desv. Journ. Bot. 2. 171.

ROSACEÆ.

272. Under **Amelanchier alnifolia** insert: — Hall, Coult. Bot. Gazette, 2. 87.
After *Mespilus nivea* insert: — *Cratægus amœna.* Salisb. Prodr. 357.
After *Mespilus arborea* insert: — *Aronia arborea.* Barton, Comp. Fl. Phil. 1. 228.

273. Dele **Canotia holacantha** & syn. (To *Rutaceæ.*)

277. After *Mespilus cuneifolia* insert: — *Cratægus calcarigera.* Salisb. Prodr. 357.

278. Under **Cratægus Douglasii** insert: — Hall, Coult. Bot. Gazette, 2. 86.

279. Under **C. rivularis** insert: — Hall, l. c. 87.

282. Under *Dryas Drummondii* insert: — Glehn, Act. Hort. Petrop. 4. 39.
After *Fragaria vesca*, var. *Chiloensis*, insert: — *F. grossa.* Salisb. Prodr. 363.

283. After *F. vesca* insert: — *F. odora.* Salisb. Prodr. 363.
Under **F. vesca** & **Virginiana** insert: — Tuckerman, Josselyn's Rarities, 73.

289. Under **Neillia opulifolia** insert: — Hall, Coult. Bot. Gazette, 2. 86.

290. Under **Nuttallia cerasiformis** insert: — Rev. Hort. 1876, 52, **fig.** (Belg. Hort. 1877, 180). Hall, Coult. Bot. Gazette, 2. 86.

292. Under *Malus coronaria* insert: — Rev. Hort., Nov. 1877, **t.**
Cratægus coronaria. Salisb. Prodr. 357.

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292. Under **Pirus rivularis** & **sambucifolia** insert: — Hall, l. c. 2. 87.

293. After **Potentilla arguta** insert: — *Geum laciniatum.* Murr. Comm. Goett. 5. 36, **t. 2** ?

300. After Var. **strigosa** insert: — *P. strigosa.* Pall.; Tratt. Ros. 4. 31.

303. Insert **Prunus Alleghaniensis.** Porter, Coult. Bot. Gazette, 2. 85.

304. After *P. Lusitanica* insert: — *P. nitida.* Salisb. Prodr. 356.

Under **P. demissa** insert: — Hall, Coult. Bot. Gazette, 2. 86.

305. Under Var. **mollis** insert: — Hall, l. c.

308. After *P. rubra* insert: — *P. nitida.* Salisb. Prodr. 356.

310. Under **Rosa Californica** insert: — Hall, Coult. Bot. Gazette, 2. 86.

311. After *R. Carolinensis* insert: — *R. fragrans.* Salisb. Prodr. 358.

Under *R. Kamtschatica* & **gymnocarpa** insert: — Hall, l. c.

312. Under *R. blanda* (?) & **pisocarpa** insert: — Hall, l. c.

315. Under *Dalibarda repens* insert: — Gray, Am. Journ. Sci. 3. 15. 71, maintaining the genus.

316. Under **Rubus leucodermis** & **Nutkanus** insert: — Hall, l. c. 87.

317. After **R. odoratus** insert: — *R. grandifolius.* Salisb. Prodr. 364.

Under **R. spectabilis** & **ursinus** insert: — Hall, l. c.

320. Under **Spiræa betulifolia** insert: — Hall, Coult. Bot. Gazette, 2. 86.

Under *S. corymbosa* insert: — Gordon, Garden, 12. 189.

321. Under **S. Douglasii** & var. **Menziesii** insert: — Hall, l. c.

Under *S. Nobleana, Menziesii* & *ariæfolia* insert: — Gordon, Garden, 12. 187.

Under **S. discolor,** var. **ariæfolia,** insert: — Hall, l. c.

322. Under *S. carpinifolia* & **tomentosa** insert: — Gordon, l. c.

SAXIFRAGACEÆ.

323. Insert **Bolandra Oregana.** Watson, Proc. Am. Acad. 13. —.

324. Under **Chrysosplenium alternifolium** insert: — See syn. in Maxim. Bull. Acad. Petersb. 23. 341 (Mel. Biol. 9. 761), referring the American form to var. **tetrandrum,** Lund.

Under **C. Americanum** & **glechomæfolium** insert: — Maxim. l. c. 765 & 766 (Mel. Biol. 9. 345 & 346).

After *Forsythia scandens* insert: — *Decumaria scandens.* Salisb. Prodr. 355.

328. After **Itea Virginica** insert: — *I. padifolia.* Salisb. Prodr. 143.

331. Under **Philadelphus Lewisii** insert: — Hall, Coult. Bot. Gazette, 2. 87.

Under **Ribes aureum** & **bracteosum** insert: — Hall, l. c.

333. Under **R. divaricatum** & **Menziesii** insert: — Hall, l. c.

336. Under **R. sanguineum** & **viscosissimum** insert: — Hall, l. c.

343. Under **Saxifraga oppositifolia** insert: — Niven, Garden, 6. 78.

Under **S. peltata** insert: — Garden, 10. 336, **t.** (Belg. Hort. 1877, 169).

348. Insert **Sullivantia Oregana.** Watson, Proc. Am. Acad. 13. —.

CRASSULACEÆ.

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352. Under **Sedum stenopetalum** insert: — Baker, Gard. Chron. 2. 8. 307.

HAMAMELACEÆ.

355. After **Liquidambar Styraciflua** insert: — *L. gummifera.* Salisb. Prodr. 393.

MYRTACEÆ.

359. Under *Psidium pyriforme* insert: — Chapman, Coult. Bot. Gazette, 3. 5.

MELASTOMACEÆ.

360. Under **Rhexia Virginica** insert: — Niven, Garden, 11. 294, **t. 69.**
After *R. septemnervia* insert: — *R. hirsuta.* Salisb. Prodr. 365.
361. Under *Peplis diandra* insert: — Baillon, Hist. Pl. 6. 438.
362. Under **Nesæa salicifolia** insert: — Baillon, l. c. 429, **f. 394, 395.**

ONAGRACEÆ.

363. Under **Clarkia pulchella** insert: — Baillon, l. c. 464, **f. 432, 433** (fl.).
365. Under **Epilobium latifolium** insert: — *Chamænerium latifolium*, var. *ambiguum.* Lange, Fl. Dan. **t. 2901**; Bull. Acad. Dan. 1877, 36 & 82.
367. Under *Chamænerium angustifolium* insert: — Lange, l. c. 36 & 83.
368. Under **Eulobus Californicus** insert: — Referred to *Œnothera* by Baillon, Hist. Pl. 6. 461.
369. Under **Gaura Lindheimeri** insert: — Baillon, l. c. 468, **f. 440–442.**
373. Under **Jussiæa Peruviana** insert:
J. macrocarpa, HBK. Chapman, Coult. Bot. Gazette, 3. 5.
374. Under **Ludwigia alternifolia** insert: — Barton, Elem. Bot. **t. 10, f. 2.** St. Hil. Fam. Nat. 2. 151.
375. Under **L. palustris** insert: — See syn. in Baillon, Bull. Soc. Par. 1876, 101.
376. Before *L. apetala* insert: — *L. repens.* Forster, Cat. Pl. N. Am. 22.
377. Under **Œnothera biennis** insert: — Baillon, Hist. Pl. 6. 459, **f. 427–429.**
Insert **Œ. ambigua.** Watson, Proc. Am. Acad. 13. —.
383. Under **Œ. micrantha** insert: — Baillon, l. c. 461, **f. 431** (fl.).
386. Under **Œ. speciosa** insert: — Baillon, l. c. 460, **f. 430** (fl.).
387. After **Œ. triloba** & syn. insert:
Var. (?) **parviflora.** Watson, Proc. Am. Acad. 12. 251.

LOASACEÆ.

389. After **Eucnide bartonioides** insert:
Mentzelia gronoviæfolia. Fisch. & Mey. Ind. Sem. Hort. Petrop. 10. 54.
Under *Microsperma bartonioides* insert: — Fl. Serres, 5, **t. 532.** Lem. Jard. Fl. **t. 15.** Regel, Sert. Petrop. 1869, **t. 11.**
Under **Mentzelia Floridana** insert: — Chapman, Coult. Bot. Gazette, 3. 5.

PASSIFLORACEÆ.

Page
392. Under *Papaya vulgaris* insert: — Chapman, l. c. 3. 12.

CUCURBITACEÆ.

394. After *Sicyos lobatus* insert:
Micrampelis echinata. Raf. Med. Rep. 5. 351. Desv. Journ. Bot. 2. 167.

After **Elaterium Coulteri** & syn. insert:
Echinopepon horridum. Naudin, Ann. Sci. Nat. 5. 6. 19; fide Cogniaux.
Echinocystis Coulteri. Cogniaux, Diag. Cucurb. (Bull. Soc. Belg. 46. 37).

After **E. Wrightii** insert: — *Echinocystis Wrightii*, Cogniaux, l. c.

Under **Lagenaria** VULGARIS insert: — Croom, Cat. Pl. Newb. 43.

After **Megarrhiza Oregana** & syn. insert:
Echinocystis Oregana. Cogniaux, l. c.

FICOIDEÆ.

410. Insert **Cypselea humifusa**. Turpin, Ann. Mus. 7. 219, **t. 121, f. 5**. Tratt. Obs. Bot. 2. 41, **t. 72**. DC. Prodr. 3. 353. Griseb. Fl. Brit. W. Ind. 56. Chapman, Coult. Bot. Gazette, 3. 2.
Radiana petiolata. Raf. Specch. 1. 88.

WHOLLY DOUBTFUL SPECIES OMITTED.

Aconitum Nuttallii. Sweet, Hort. Brit. 2 ed. 584. Loud. Hort. Brit. Suppl. 579. Probably never described.
A. pallidum. Nutt.; Loud. Hort. Brit. 482. Torr. & Gray, Fl. 1. 34.

Actæa pentagyna. Walter, 151.

Hydrastis Caroliniensis. Walter, 156.

Opuntia microcarpa. Engelm. in Emory's Rep. 157, **f. 7.**

O. Stanleyi. Engelm. l. c. **f. 9.**

O. violacea. Engelm. l. c. **f. 8.**

Orimaria filiformis. Raf.; Seringe, Bull. Bot. Soc. Genev. 1830, 218 (Litt.-Ber. zu Linnæa, 1833, 82).

Ranunculus collinus. Beck; Eaton, Manual, 5 ed. 360. Eat. & Wr. 389.

TABLE OF ORDERS,

WITH THE NUMBER OF THEIR GENERA AND SPECIES, WHETHER INDIGENOUS, NATURALIZED, OR ONLY ADJACENT MEXICAN.

Orders.	Indigenous.		Naturalized.		Mexican.	
	Genera.	Species.	Additional Genera.	Species.	Additional Genera.	Species.
Ranunculaceæ	18	145	2	8	. . .	2
Dilleniaceæ	1	2	. . .	. . .	. . .	. . .
Calycanthaceæ	1	4	. . .	. . .	. . .	. . .
Magnoliaceæ	4	11	. . .	. . .	. . .	. . .
Anonaceæ	2	6	. . .	. . .	. . .	. . .
Menispermaceæ	3	4	. . .	. . .	. . .	. . .
Berberidaceæ	7	15	. . .	1	. . .	. . .
Nymphæaceæ	5	13	. . .	. . .	. . .	. . .
Sarraceniaceæ	2	8	. . .	. . .	. . .	. . .
Papaveraceæ	13	17	2	5	1	1
Fumariaceæ	3	17	1	1	. . .	. . .
Cruciferæ	37	213	5	28	. . .	2
Capparidaceæ	9	25	1	2	. . .	. . .
Resedaceæ	1	1	1	1	. . .	. . .
Cistaceæ	3	17	. . .	. . .	. . .	. . .
Violaceæ	2	32	. . .	2	. . .	1
Canellaceæ	1	1	. . .	. . .	. . .	. . .
Bixineæ	1	2	. . .	. . .	. . .	1
Polygalaceæ	3	39	. . .	. . .	. . .	2
Frankeniaceæ	1	2	. . .	. . .	. . .	1
Caryophyllaceæ	12	116	3	19	. . .	5
Paronychieæ	5	17	1	1	. . .	. . .
Portulacaceæ	9	41	. . .	1	. . .	. . .
Tamariscineæ	1	3	. . .	. . .	1	1
Elatineæ	2	4	. . .	. . .	. . .	. . .
Hypericaceæ	3	38	. . .	1	. . .	. . .
Guttiferæ	. . .	. . .	. . .	. . .	1	1
Ternstrœmiaceæ	2	4	. . .	. . .	. . .	. . .
Malvaceæ	17	99	3	14	2	7
Sterculiaceæ	5	10	. . .	. . .	. . .	. . .
Tiliaceæ	2	4	1	1	. . .	. . .
Linaceæ	1	17	. . .	1	. . .	1
Malpighiaceæ	5	7	. . .	. . .	1	2
Zygophyllaceæ	5	7	. . .	. . .	1	3
Geraniaceæ	6	26	. . .	5	. . .	1
Rutaceæ	6	12	2	2	. . .	. . .
Simarubeæ	6	6	. . .	. . .	. . .	. . .
Burseraceæ	2	3	. . .	. . .	. . .	1
Meliaceæ	1	1	. . .	. . .	1	1
Olacineæ	2	2	. . .	. . .	. . .	. . .
Ilicineæ	2	14	. . .	. . .	. . .	. . .
Celastraceæ	7	16	. . .	. . .	. . .	. . .
Rhamnaceæ	12	45	. . .	1	. . .	1
Vitaceæ	2	16	. . .	. . .	. . .	. . .
Sapindaceæ	13	31	. . .	. . .	. . .	3
Anacardiaceæ	2	15	. . .	1	1	2
Leguminosæ	67	685	8	32	1	17
Rosaceæ	35	198	. . .	14	. . .	1

TABLE OF ORDERS, — *Continued.*

Orders.	Indigenous.		Naturalized.		Mexican.	
	Genera.	Species.	Additional Genera.	Species.	Additional Genera.	Species.
Saxifragaceæ	23	134	. . .	1	. . .	. . .
Crassulaceæ	5	34	1	3	. . .	1
Droseraceæ	2	8	. . .	. . .	. . .	. . .
Hamamelaceæ	3	3	. . .	. . .	. . .	. . .
Halorageæ	3	14	. . .	. . .	. . .	. . .
Rhizophoraceæ	1	1	. . .	. . .	. . .	. . .
Combretaceæ	2	2	1	1	. . .	. . .
Myrtaceæ	3	9	. . .	1	. . .	. . .
Melastomaceæ	1	8	. . .	. . .	. . .	. . .
Lythraceæ	5	15	. . .	1	. . .	. . .
Onagraceæ	15	145	. . .	1	. . .	4
Loasaceæ	5	25	. . .	. . .	. . .	2
Turneraceæ	1	1	. . .	. . .	. . .	. . .
Passifloraceæ	2	8	. . .	. . .	. . .	2
Cucurbitaceæ	12	26	4	8	. . .	1
Datiscaceæ	1	1	. . .	. . .	. . .	. . .
Cactaceæ	5	120	. . .	4	. . .	16
Ficoideæ	4	5	1	2	. . .	. . .
Umbelliferæ	45	168	5	14	. . .	1
Araliaceæ	2	9	1	1	. . .	. . .
Cornaceæ	3	28	. . .	. . .	. . .	1
	492	2775	43	178	10	85

Total number of Orders 69
" " Genera 545
" " Species 3038

Ab
Ab
Ab
Ac
Ac
2
Ac
Ac
Ac
Ac
Ach
Ach
Ach
Ach
45
Acon
Acon
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Acta
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